

## DRILL STEM TEST REPORT

Prepared For: **Imperial Oil properties,inc.**

200 East First St Ste 413  
Wichita, KS 67202

ATTN: Ted Jochems

**35-32S-18W**

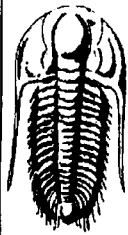
**Kimble #35-2**

Start Date: 2004.02.07 @ 13:36:04

End Date: 2004.02.08 @ 00:08:04

Job Ticket #: 18749                      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

Imperial Oil properties, inc.

**Kimble #35-2**

200 East First St Ste 413  
Wichita, KS 67202

**35-32S-18W**

Job Ticket: 18749

**DST#: 1**

ATTN: Ted Jochems

Test Start: 2004.02.07 @ 13:36:04

### GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:02:04

Time Test Ended: 00:08:04

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **4733.00 ft (KB) To 4755.00 ft (KB) (TVD)**

Reference Elevations: 2032.00 ft (KB)

Total Depth: 4755.00 ft (KB) (TVD)

2021.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6625**

Inside

Press@RunDepth: 1105.26 psig @ 4735.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.02.07

End Date:

2004.02.08

Last Calib.: 2004.02.08

Start Time: 13:36:09

End Time:

00:08:04

Time On Btm: 2004.02.07 @ 16:59:04

Time Off Btm: 2004.02.07 @ 21:05:34

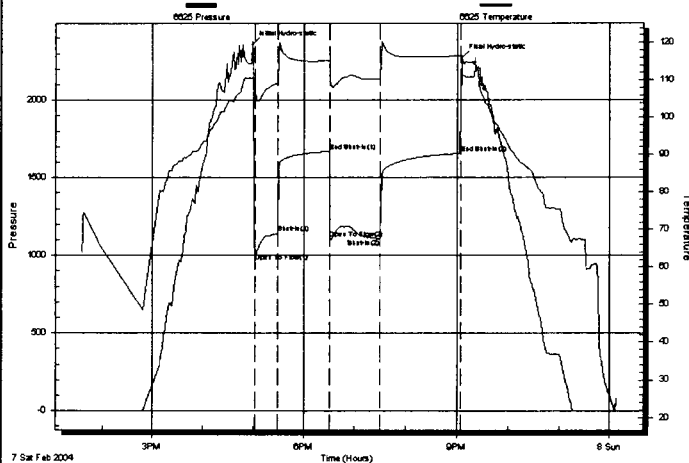
**TEST COMMENT:** IF: Strong blow b.o.b of diesel bucket in 15 sec. GTS less than 2 mins. Gauge gas.

IS: Bled down n for 50 mins. no blow back.

FF: Strong blow b.o.b in 10 sec. gauge gas.

FS: Bled down n for 65 mins. slight s

Pressure vs. Time



### PRESSURE SUMMARY

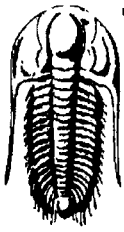
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2357.77	110.73	Initial Hydro-static
3	958.91	108.48	Open To Flow (1)
31	1146.13	109.33	Shut-In(1)
92	1668.10	115.19	End Shut-In(1)
92	1108.72	109.73	Open To Flow (2)
151	1105.26	110.21	Shut-In(2)
246	1655.50	116.47	End Shut-In(2)
247	2274.57	111.52	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	4704' of gip	0.00
15.00	Condensate	0.21

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	130.00	4151.33
Last Gas Rate	1.00	205.00	6307.49
Max. Gas Rate	1.00	240.00	7313.70



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Imperial Oil properties, inc.

**Kimble #35-2**

200 East First St Ste 413  
Wichita, KS 67202

**35-32S-18W**

Job Ticket: 18749

**DST#: 1**

ATTN: Ted Jochens

Test Start: 2004.02.07 @ 13:36:04

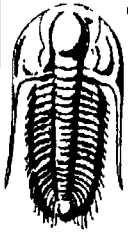
### Tool Information

Drill Pipe:	Length: 4719.00 ft	Diameter: 3.80 inches	Volume: 66.20 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 66.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4733.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4710.00	
Hydraulic tool	5.00			4715.00	
Jars	5.00			4720.00	
Safety Joint	3.00			4723.00	
Packer	5.00			4728.00	28.00 Bottom Of Top Packer
Packer	5.00			4733.00	
Stubb	2.00			4735.00	
Recorder	0.00	6625	Inside	4735.00	
Anchor	17.00			4752.00	
Recorder	0.00	10991	Outside	4752.00	
Bullnose	3.00			4755.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Imperial Oil properties, inc.

**Kimble #35-2**

200 East First St Ste 413  
Wichita, KS 67202

**35-32S-18W**

Job Ticket: 18749

**DST#: 1**

ATTN: Ted Jochems

Test Start: 2004.02.07 @ 13:36:04

### 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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.10 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.32 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4704' of gip	0.000
15.00	Condensate	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 1

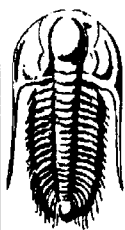
Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Imperial Oil properties, inc.

**Kimble #35-2**

200 East First St Ste 413  
Wichita, KS 67202

**35-32S-18W**

Job Ticket: 18749

**DST#: 1**

ATTN: Ted Jochems

Test Start: 2004.02.07 @ 13:36:04

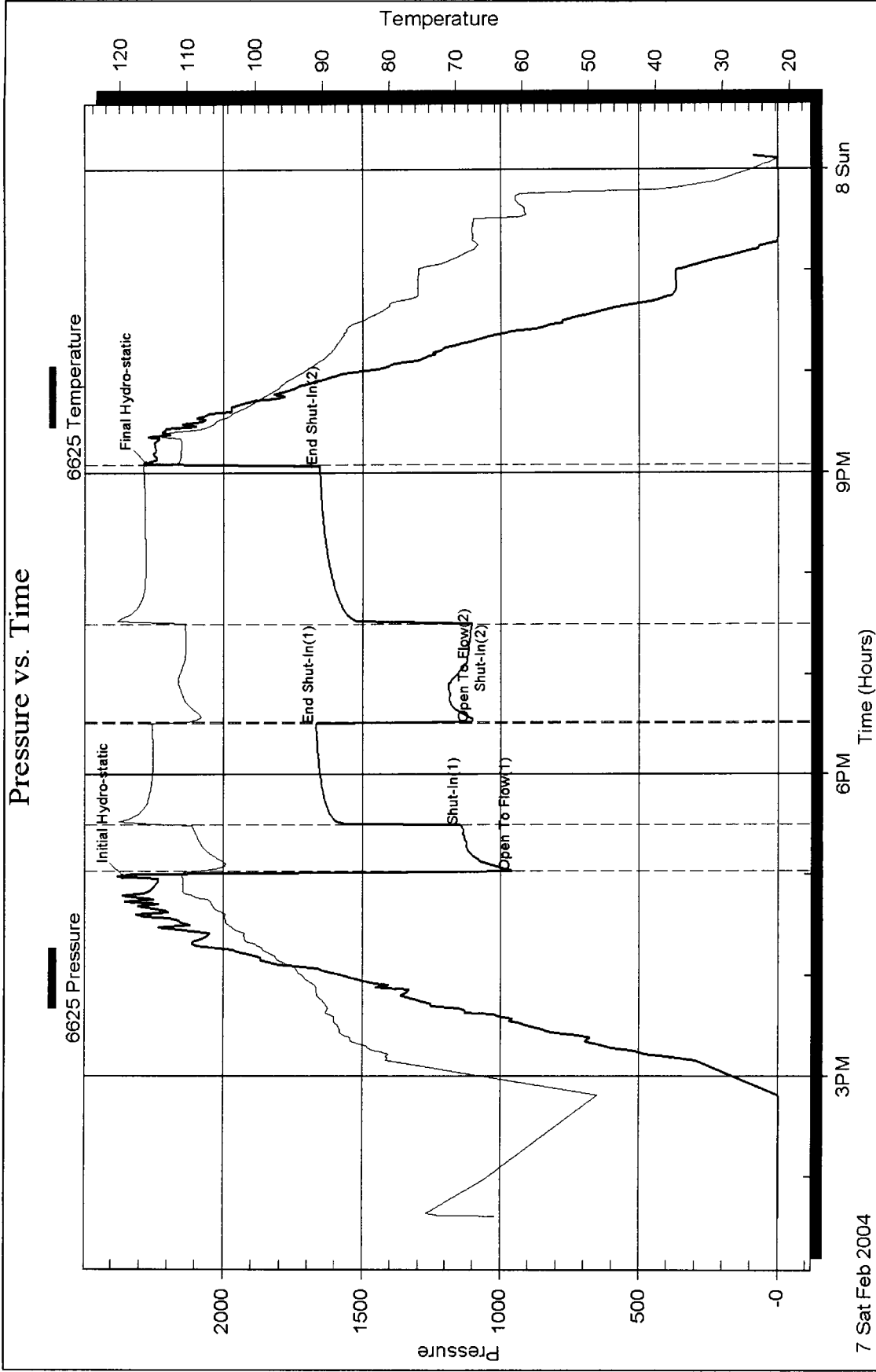
### Gas Rates Information

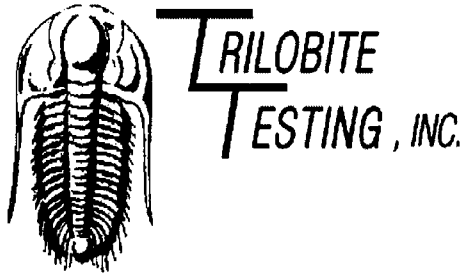
Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	1.00	130.00	4151.33
1	10	1.00	130.00	4151.33
1	20	1.00	180.00	5588.77
1	30	1.00	180.00	5588.77
2	10	1.00	180.00	5588.77
2	20	1.00	215.00	6594.98
2	30	1.00	240.00	7313.70
2	40	1.00	210.00	6451.23
2	50	1.00	205.00	6307.49
2	60	1.00	205.00	6307.49

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Imperial Oil properties,inc.**

200 East First St Ste 413  
Wichita, KS 67202

ATTN: Ted Jochems

**35-32S-18W**

**Kimble #35-2**

Start Date: 2004.02.08 @ 08:03:41

End Date: 2004.02.08 @ 19:38:41

Job Ticket #: 18750                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Imperial Oil properties,inc.

Kimble #35-2

35-32S-18W

DST # 2

Lansing "B"

2004.02.08



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# DRILL STEM TEST REPORT

Imperial Oil properties, inc.

**Kimble #35-2**

200 East First St Ste 413  
Wichita, KS 67202

**35-32S-18W**

Job Ticket: 18750

**DST#: 2**

ATTN: Ted Jochems

Test Start: 2004.02.08 @ 08:03:41

## GENERAL INFORMATION:

Formation: **Lansing "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:58:11

Time Test Ended: 19:38:41

Test Type: Conventional Straddle

Tester: Darren L. Amerine

Unit No: 19

Interval: **4464.00 ft (KB) To 4493.00 ft (KB) (TVD)**

Total Depth: 4755.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2032.00 ft (KB)

2021.00 ft (CF)

KB to GR/CF: 11.00 ft

## Serial #: 6625

Inside

Press@RunDepth: 1342.45 psig @ 4470.00 ft (KB)

Start Date: 2004.02.08

End Date:

2004.02.08

Start Time: 08:03:46

End Time:

19:38:41

Capacity: 7000.00 psig

Last Calib.: 2004.02.08

Time On Btm: 2004.02.08 @ 11:56:11

Time Off Btm: 2004.02.08 @ 15:26:56

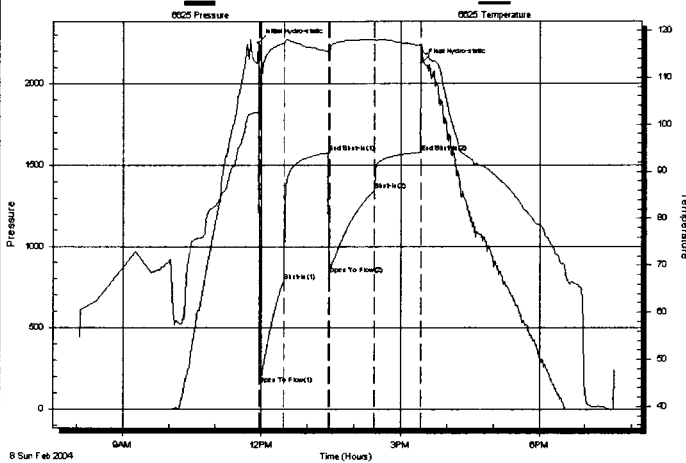
TEST COMMENT: IF: Fair blow b.o.b of diesel bucket in 60 sec.

IS: Bled down for 5 mins. no blow back.

FF: Fair blow b.o.b of diesel in 2 mins.

FS: Bled down for 3 mins. no blow back.

Pressure vs. Time



## PRESSURE SUMMARY

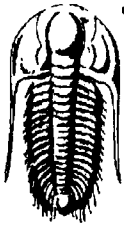
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.87	102.82	Initial Hydro-static
2	151.86	104.45	Open To Flow (1)
33	787.50	117.38	Shut-In (1)
91	1573.84	115.62	End Shut-In (1)
92	824.52	114.96	Open To Flow (2)
151	1342.45	118.03	Shut-In (2)
210	1577.42	116.82	End Shut-In (2)
211	2125.84	116.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2630.00	Salt water	36.89
120.00	MCSW 10% mud 90% water	1.68

## Gas Rates

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



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**TOOL DIAGRAM**

Imperial Oil properties, inc.  
200 East First St Ste 413  
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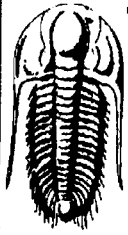
**Kimble #35-2**  
**35-32S-18W**  
Job Ticket: 18750      **DST#: 2**  
Test Start: 2004.02.08 @ 08:03:41

### Tool Information

Drill Pipe:	Length: 4473.00 ft	Diameter: 3.80 inches	Volume: 62.74 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4464.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	4493.00 ft			
Interval between Packers:	29.00 ft			
Tool Length:	319.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4446.00	
Hydraulic tool	5.00			4451.00	
Jars	5.00			4456.00	
Safety Joint	3.00			4459.00	
Packer	5.00			4464.00	23.00      Bottom Of Top Packer
Stubb	2.00			4466.00	
Anchor	4.00			4470.00	
Recorder	0.00	6625	Inside	4470.00	
Anchor	20.00			4490.00	
Recorder	0.00	13769	Outside	4490.00	
Anchor	3.00			4493.00	29.00      Tool Interval
Packer	5.00			4498.00	
Stubb	1.00			4499.00	
Anchor	7.00			4506.00	
Blank Spacing	251.00			4757.00	
Recorder	0.00	10991	Below	4757.00	
Bullnose	3.00			4760.00	267.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>319.00</b>				



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**FLUID SUMMARY**

Imperial Oil properties, inc.  
200 East First St Ste 413  
Wichita, KS 67202  
ATTN: Ted Jochems

**Kimble #35-2**  
**35-32S-18W**  
Job Ticket: 18750      **DST#: 2**  
Test Start: 2004.02.08 @ 08:03:41

**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:	150000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.10 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.32 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
2630.00	Salt water	36.892
120.00	MCSW 10% mud 90% water	1.683

Total Length: 2750.00 ft      Total Volume: 38.575 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: .06@70=150000

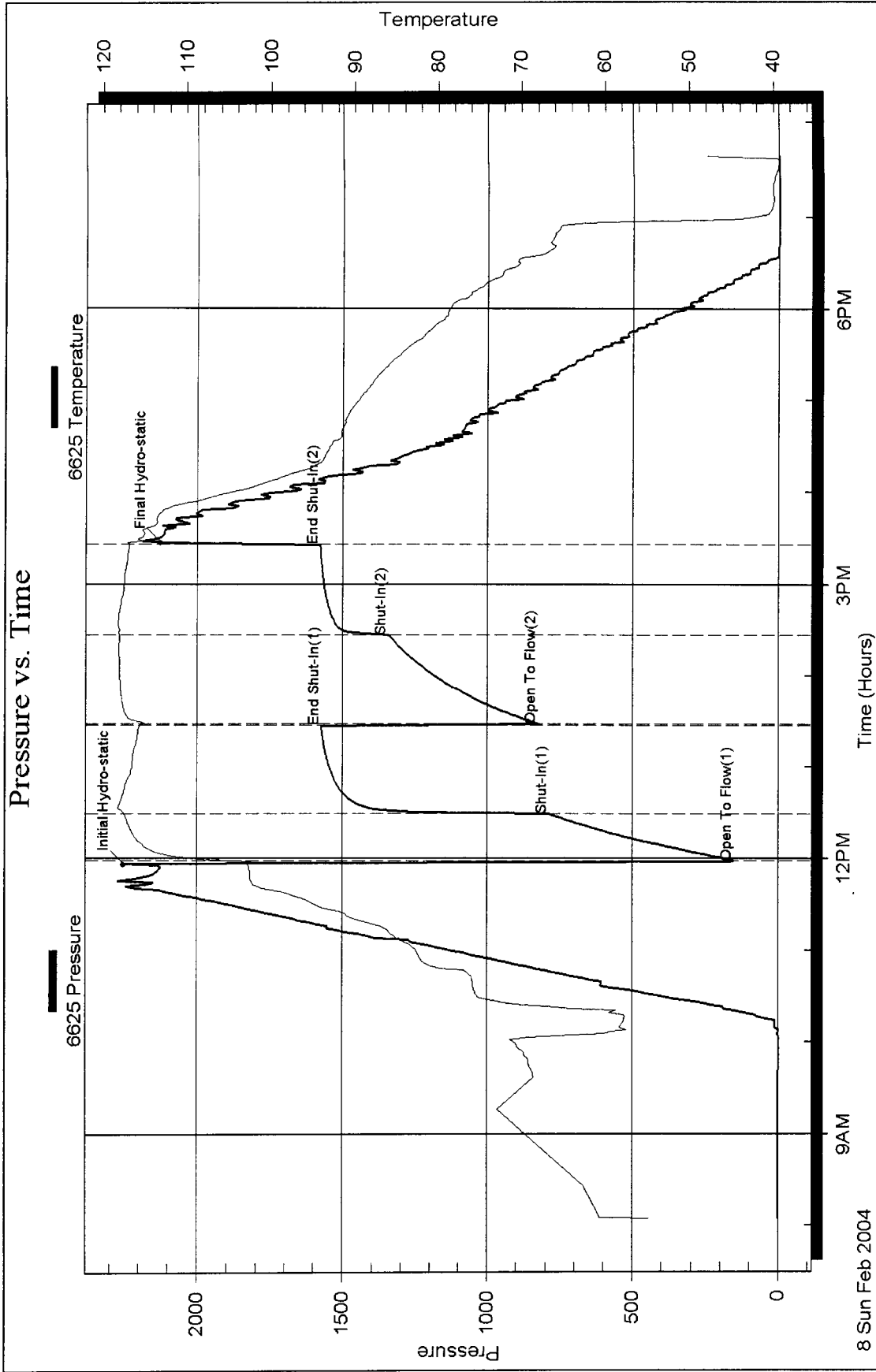
Serial #: 6625

Inside

Imperial Oil properties, inc.

35-32S-18W

DST Test Number: 2

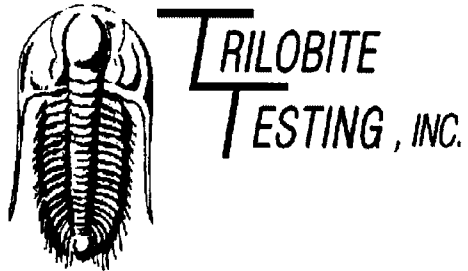


8 Sun Feb 2004

Trilobite Testing, Inc

Ref. No: 18750

Printed: 2004.02.13 @ 11:22:16 Page 5



## DRILL STEM TEST REPORT

Prepared For: **Imperial Oil properties,inc.**

200 East First St Ste 413  
Wichita, KS 67202

ATTN: Ted Jochems

**35-32S-18W**

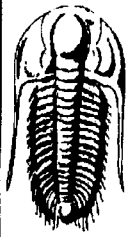
**Kimble #35-2**

Start Date: 2004.02.09 @ 02:43:33

End Date: 2004.02.09 @ 13:35:13

Job Ticket #: 18626                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
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**TRILOBITE  
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## DRILL STEM TEST REPORT

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200 East First St Ste 413  
Wichita, KS 67202  
ATTN: Ted Jochems

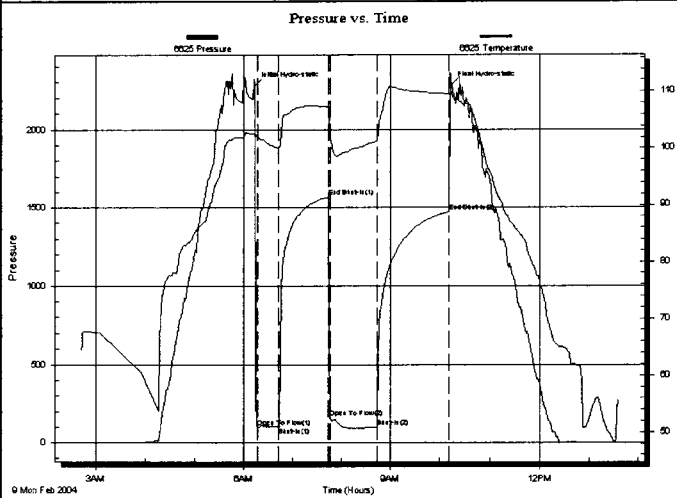
**Kimble #35-2**  
**35-32S-18W**  
Job Ticket: 18626 **DST#: 3**  
Test Start: 2004.02.09 @ 02:43:33

### GENERAL INFORMATION:

Formation: **Drum**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 06:16:58  
Time Test Ended: 13:35:13  
Interval: **4618.00 ft (KB) To 4649.00 ft (KB) (TVD)**  
Total Depth: **4755.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Straddle**  
Tester: **Darren L. Amerine**  
Unit No: **19**  
Reference Elevations: **2032.00 ft (KB)**  
**2021.00 ft (CF)**  
KB to GR/CF: **11.00 ft**

**Serial #: 6625** **Inside**  
Press@RunDepth: **101.88 psig @ 4624.00 ft (KB)** Capacity: **7000.00 psig**  
Start Date: **2004.02.09** End Date: **2004.02.09** Last Calib.: **2004.02.09**  
Start Time: **02:43:33** End Time: **13:35:13** Time On Btm: **2004.02.09 @ 06:13:58**  
Time Off Btm: **2004.02.09 @ 10:12:58**

**TEST COMMENT:** IF: Strong blow b.o.b of diesel in 15 sec. GTS in 2 mins. Gauge gas.  
IS: Bled down n for 20 mins. slight surface blow back.  
FF: Strong blow b.o.b in 15 sec. Gauge gas.  
FS: Bled down n for 20 mins. built back



### PRESSURE SUMMARY

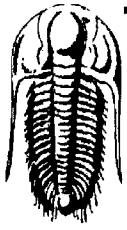
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.68	102.56	Initial Hydro-static
3	98.78	102.08	Open To Flow (1)
29	100.59	100.11	Shut-In(1)
91	1567.24	107.40	End Shut-In(1)
93	161.63	101.75	Open To Flow (2)
150	101.88	101.33	Shut-In(2)
237	1471.97	109.59	End Shut-In(2)
239	2278.95	113.10	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	4501' of gip	0.00
125.00	G&WCM 10% gas 40% water 50% mud	1.75

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	12.00	412.36
Last Gas Rate		0.00	
Max. Gas Rate	0.75	22.00	568.56



**TRILOBITE  
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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Imperial Oil properties, inc.  
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ATTN: Ted Jochems

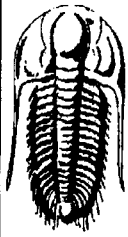
**Kimble #35-2**  
**35-32S-18W**  
Job Ticket: 18626      **DST#: 3**  
Test Start: 2004.02.09 @ 02:43:33

### Tool Information

Drill Pipe:	Length: 4625.00 ft	Diameter: 3.80 inches	Volume: 64.88 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 64.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4618.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	4649.00 ft			
Interval between Packers:	31.00 ft			
Tool Length:	165.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4600.00	
Hydraulic tool	5.00			4605.00	
Jars	5.00			4610.00	
Safety Joint	3.00			4613.00	
Packer	5.00			4618.00	23.00      Bottom Of Top Packer
Stubb	2.00			4620.00	
Anchor	4.00			4624.00	
Recorder	0.00	6625	Inside	4624.00	
Anchor	22.00			4646.00	
Recorder	0.00	13769	Outside	4646.00	
Anchor	3.00			4649.00	31.00      Tool Interval
Packer	5.00			4654.00	
Stubb	1.00			4655.00	
Anchor	8.00			4663.00	
Blank Spacing	94.00			4757.00	
Recorder	0.00	10991	Below	4757.00	
Bullnose	3.00			4760.00	111.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>165.00</b>				



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Wichita, KS 67202  
ATTN: Ted Jochems

**Kimble #35-2**  
**35-32S-18W**  
Job Ticket: 18626      **DST#: 3**  
Test Start: 2004.02.09 @ 02:43:33

**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:	85000 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.10 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.32 inches			

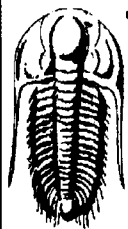
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	4501' of gip	0.000
125.00	G&WCM 10%gas 40%water 50%mud	1.753

Total Length: 125.00 ft      Total Volume: 1.753 bbl

Num Fluid Samples: 1      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: .07@70=85000



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Imperial Oil properties, inc.

**Kimble #35-2**

200 East First St Ste 413  
Wichita, KS 67202

**35-32S-18W**

Job Ticket: 18626

**DST#: 3**

ATTN: Ted Jochems

Test Start: 2004.02.09 @ 02:43:33

### 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 <sup>3</sup> /d)
1	12	0.75	12.00	412.36
1	22	0.75	10.00	381.12
1	30	0.75	9.50	373.31
2	10	0.75	22.00	568.56
2	20	0.75	12.00	412.36
2	30	0.50	16.00	205.07
2	40	0.50	14.00	191.58
2	50	0.50	9.50	161.22
2	60	0.50	10.00	164.59
0	0	-999999.00	0.00	-999999.00

Serial #: 6625

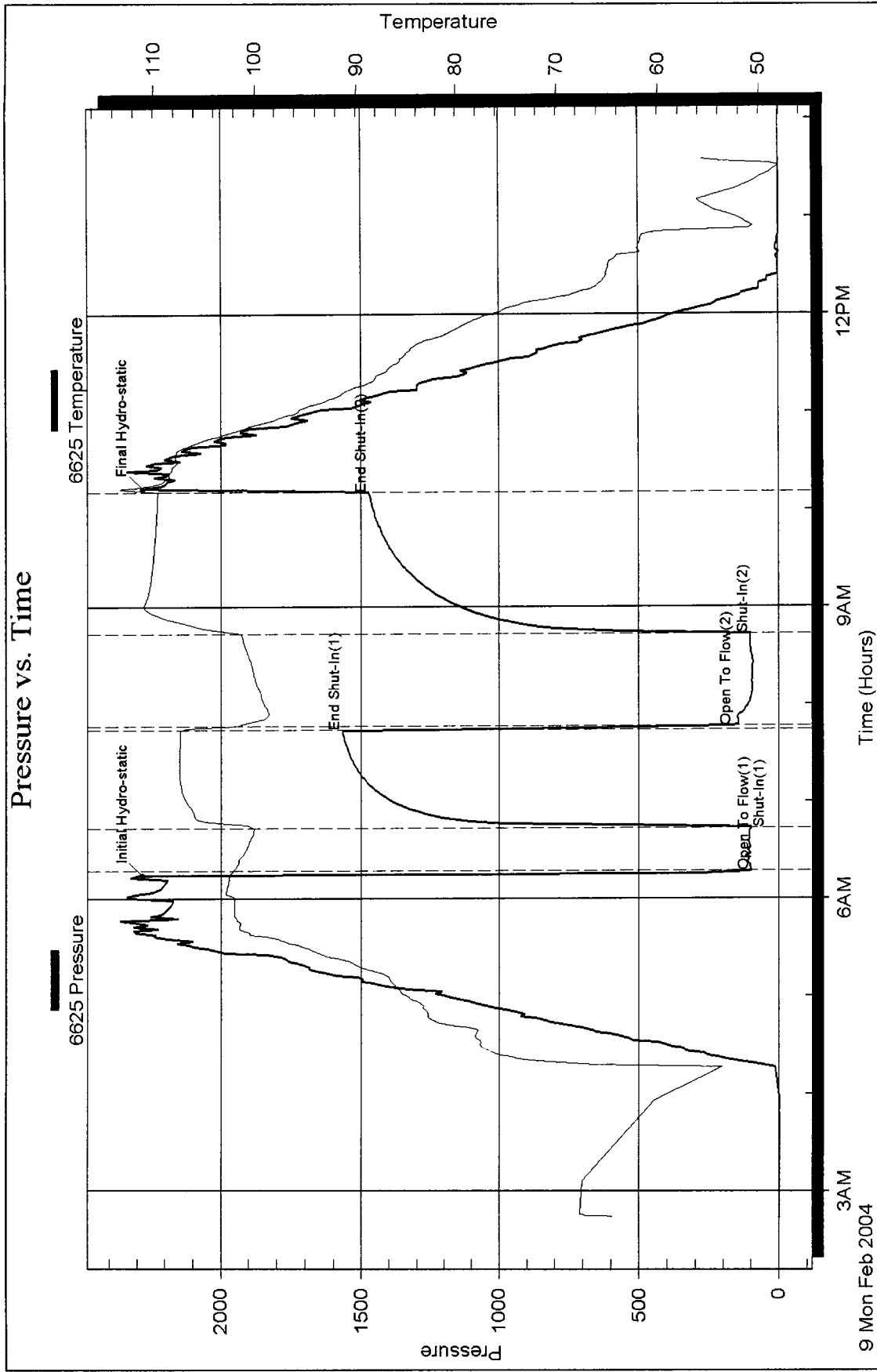
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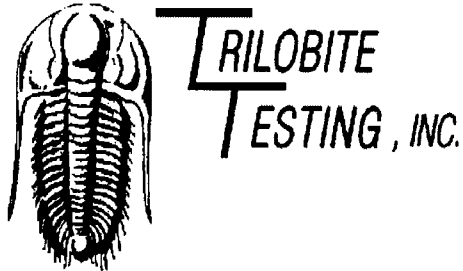
Imperial Oil properties, inc.

35-32S-18W

DST Test Number: 3

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Imperial Oil properties,inc.**

200 East First St Ste 413  
Wichita, KS 67202

ATTN: Ted Jochems

**35-32S-18W**

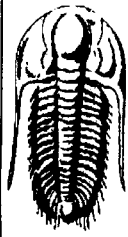
**Kimble #35-2**

Start Date: 2004.02.10 @ 03:43:43

End Date: 2004.02.10 @ 13:56:58

Job Ticket #: 18627                      DST #: 4

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Imperial Oil properties, inc.  
 200 East First St Ste 413  
 Wichita, KS 67202  
 ATTN: Ted Jochens

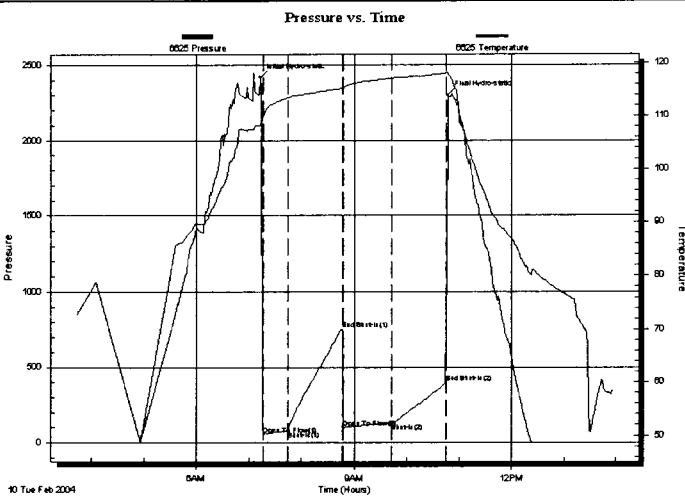
**Kimble #35-2**  
**35-32S-18W**  
 Job Ticket: 18627 **DST#: 4**  
 Test Start: 2004.02.10 @ 03:43:43

## GENERAL INFORMATION:

Formation: **Hertha**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:16:43  
 Time Test Ended: 13:56:58  
 Interval: **4814.00 ft (KB) To 4834.00 ft (KB) (TVD)**  
 Total Depth: 4834.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Darren L. Amerine  
 Unit No: 19  
 Reference Elevations: 2032.00 ft (KB)  
 2021.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 6625** Inside  
 Press@RunDepth: 128.93 psig @ 4816.00 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2004.02.10 End Date: 2004.02.10 Last Calib.: 2004.02.10  
 Start Time: 03:43:48 End Time: 13:56:58 Time On Btm: 2004.02.10 @ 07:13:13  
 Time Off Btm: 2004.02.10 @ 10:47:28

**TEST COMMENT:** IF: Strong blow b.o.b of diesel in 15 sec.  
 IS: Bled down n for 2 mins. no blow back.  
 FF: Fair blow b.o.b of diesel in 3 mins.  
 FSI: Bled down n for 10 mins. Very slight surface blow back.



## PRESSURE SUMMARY

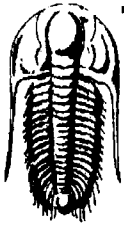
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2419.17	108.46	Initial Hydro-static
4	52.65	110.34	Open To Flow (1)
32	80.41	113.49	Shut-In(1)
93	754.58	115.22	End Shut-In(1)
94	93.81	115.25	Open To Flow (2)
150	128.93	117.13	Shut-In(2)
212	397.71	117.95	End Shut-In(2)
215	2299.59	117.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	2250'gip	0.00
120.00	SGCM 6%gas 94%mud	1.68
120.00	SG&MCW 4%gas 10%mud 85%w ater	1.68

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Imperial Oil properties, inc.

**Kimble #35-2**

200 East First St Ste 413  
Wichita, KS 67202

**35-32S-18W**

Job Ticket: 18627

**DST#: 4**

ATTN: Ted Jochems

Test Start: 2004.02.10 @ 03:43:43

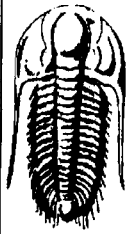
**Tool Information**

Drill Pipe:	Length: 4806.00 ft	Diameter: 3.80 inches	Volume: 67.42 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 67.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4814.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4791.00	
Hydraulic tool	5.00			4796.00	
Jars	5.00			4801.00	
Safety Joint	3.00			4804.00	
Packer	5.00			4809.00	28.00 Bottom Of Top Packer
Packer	5.00			4814.00	
Stubb	2.00			4816.00	
Recorder	0.00	6625	Inside	4816.00	
Anchor	15.00			4831.00	
Recorder	0.00	13769	Outside	4831.00	
Bullnose	3.00			4834.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 48.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Imperial Oil properties,inc.

**Kimble #35-2**

200 East First St Ste 413  
Wichita, KS 67202

**35-32S-18W**

Job Ticket: 18627

**DST#: 4**

ATTN: Ted Jochems

Test Start: 2004.02.10 @ 03:43:43

**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: 100000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume: bbl

Water Loss: 13.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.60 ohm.m

Gas Cushion Pressure: psig

Salinity: 11000.00 ppm

Filter Cake: 0.32 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	2250'gip	0.000
120.00	SGCM 6%gas 94%mud	1.683
120.00	SG&MCW 4%gas 10%mud 85%water	1.683

Total Length: 240.00 ft Total Volume: 3.366 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .08@70=100000

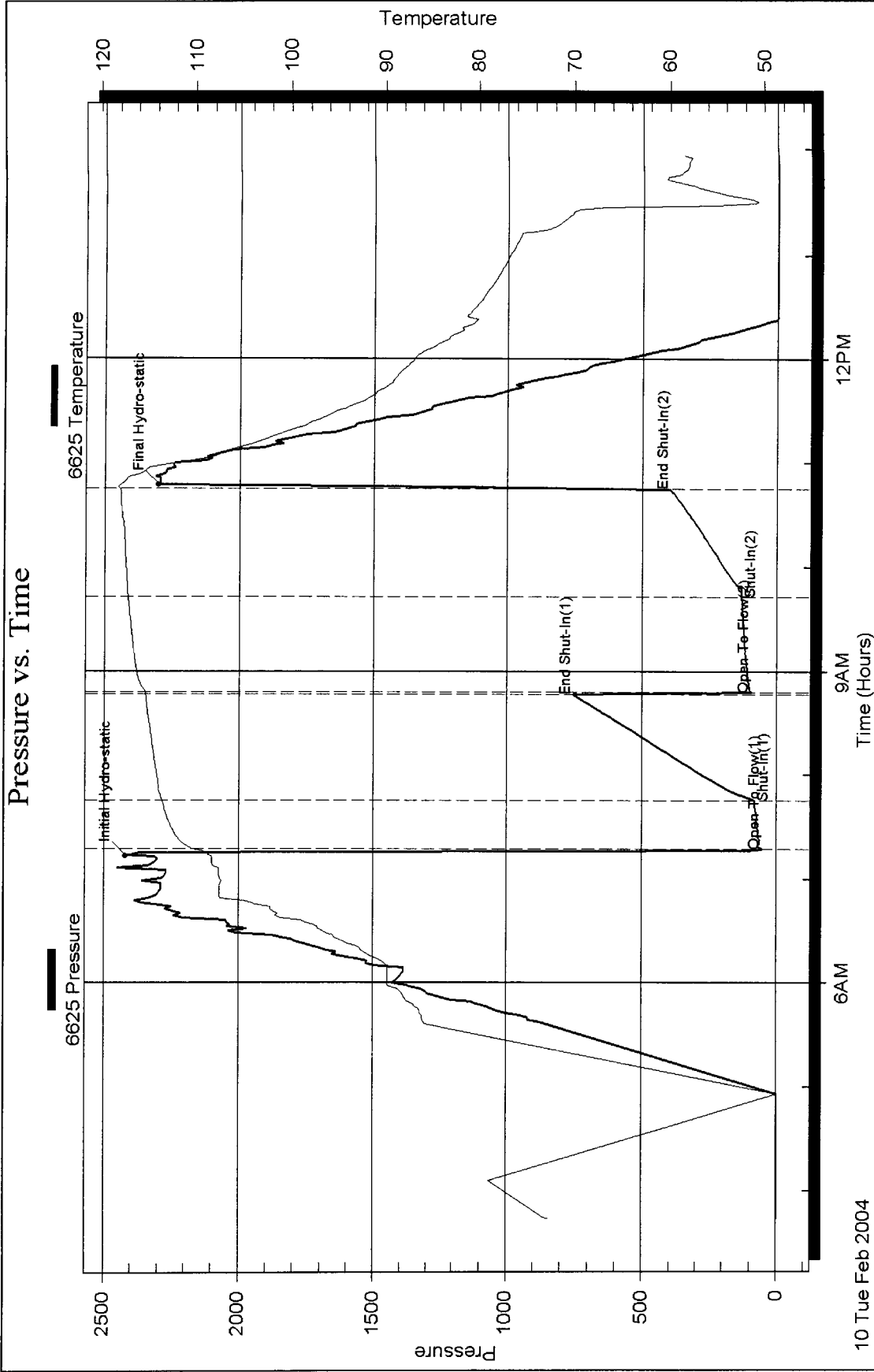
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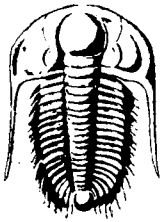
Imperial Oil properties, inc.

35-32S-18W

DST Test Number: 4



10 Tue Feb 2004



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18749

## Test Ticket

Well Name & No. Kimble #35-2 Test No. #1 Date 2-7-04  
 Company Imperial Oil Properties, Inc. Zone Tested Swopce  
 Address 200 East 1st Suite 413 Wichita Ks. 67202 Elevation 2032 KB 2021 GL  
 Co. Rep / Geo. Ted Jochems Cont. Duke #1 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 35 Twp. 32S Rge. 18W Co. Comanche Co. State KS  
 No. of Copies 5 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4733' - 4755' Initial Str Wt./Lbs. 68,000 Unseated Str Wt./Lbs. 62,000  
 Anchor Length 22' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 75,000  
 Top Packer Depth 4728' Tool Weight 2100  
 Bottom Packer Depth 4733' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 4755' Wt. Pipe Run N/A Drill Collar Run N/A

Mud Wt. 9.3 LCM 0 - Vis. 50 WL 10.4 Drill Pipe Size 4 1/2 x H Ft. Run 4719'  
 Blow Description IF: Strong blow p.o.b in 15 sec. GTS in 2 mins. Gauge Gas.  
F5I: Bled down for 50 mins. No blow back  
Ft: Strong blow p.o.b of diesel in 10 sec. Gauge Gas.  
F5I: Bled down for 65 mins

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>15'</u>	<u>4704</u>	<u>N/A</u>	<u>15'</u>
Rec. <u>15'</u>	Feet of <u>Condensate</u>	%gas	%oil
Rec. <u>4704</u>	Feet of <u>GIP</u>	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil
Rec. _____	Feet of _____	%gas	%oil

BHT 116° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 4000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2358</u>	PSI	<u>6625</u>	<u>800</u>
(B) First Initial Flow Pressure	<u>959</u>	PSI	(depth) <u>4735'</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure	<u>1146</u>	PSI	Recorder No. <u>10991</u>	Jars <u>200</u>
(D) Initial Shut-In Pressure	<u>1668</u>	PSI	(depth) <u>4752'</u>	Safety Jt. <u>50</u>
(E) Second Initial Flow Pressure	<u>1109</u>	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>1105</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1656</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2275</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>66 (132) 1122</u>

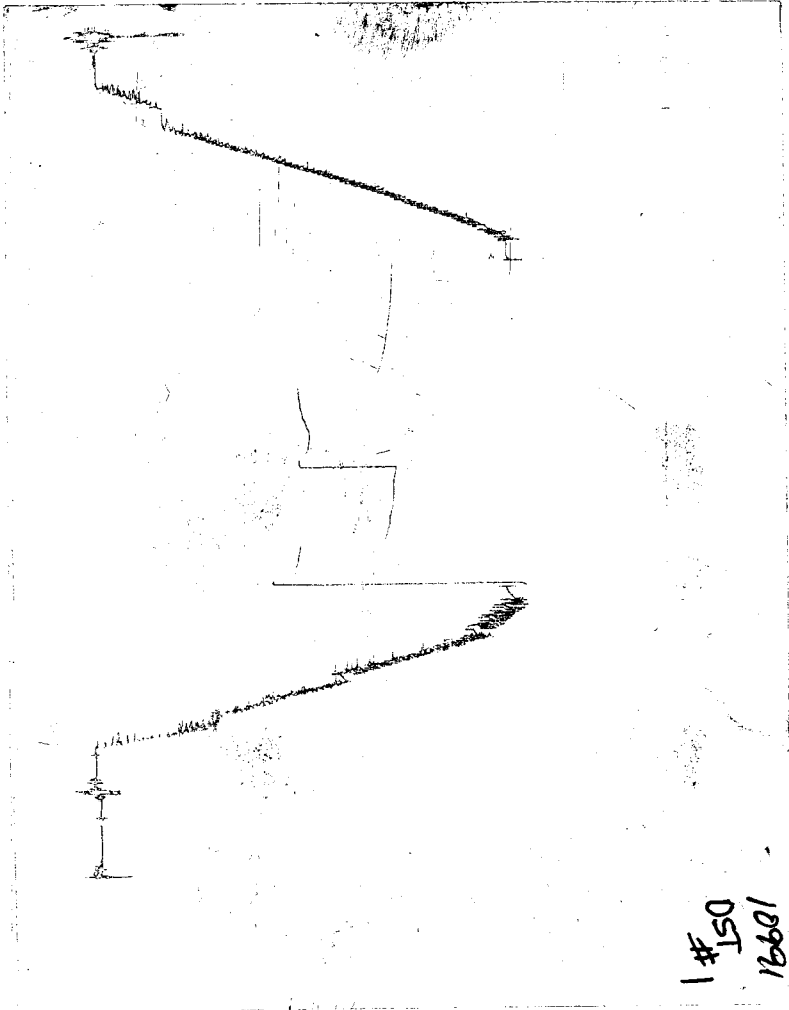
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

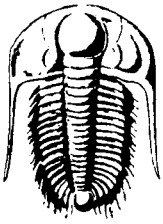
Approved By Ted Jochems  
 Our Representative Darwin Amersine

T-On Location	<u>1230</u>
T-Started	<u>1336</u>
T-Open	<u>1705</u>
T-Pulled	<u>2105</u>
T-Off	<u>0008</u>
Sub Total:	<u>1312.20</u>
Std. By <u>2 1/2</u>	<u>75</u>
Other	_____
Total:	<u>1387.20</u>

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N<sup>o</sup> 18750

05/03

## Test Ticket

Well Name & No. <u>Kimble #35-2</u>	Test No. <u>#2</u>	Date <u>2-8-09</u>
Company <u>Imperial Oil properties, Inc. 200 E. 1st</u>	Zone Tested <u>Lansing "B"</u>	
Address <u>Suite 413 Wichita, Ks. 67202</u>	Elevation <u>2032</u>	KB <u>2021</u> GL
Co. Rep / Geo. <u>Ted Jochems</u>	Cont. <u>Duke #1</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>35</u> Twp. <u>32S</u> Rge. <u>BW</u> Co. <u>Comanche, Co.</u> State <u>KS</u>		
No. of Copies <u>5</u> Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____		

Interval Tested <u>4464 - 4493</u>	Initial Str Wt./Lbs. <u>68,000</u>	Unseated Str Wt/Lbs. <u>81,000</u>
Anchor Length <u>29'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>70,000</u>
Top Packer Depth _____	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4464 (4493)</u>	Hole Size 7 7/8" <input checked="" type="checkbox"/>	Rubber Size 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>4755 262' Tailpipe</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>N/A</u>
Mud Wt. <u>9.1</u> LCM <u>-0</u> Vis. <u>62</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2 x 14</u>	Ft. Run <u>4719'</u>

Blow Description IT: Fair blow b.o.b of diesel in 60sec.  
ISL: Bled down for 5 mins. No blow back.  
FT: Fair blow b.o.b of diesel in 2 mins.  
FSI: Bled down for 3 mins. No blow back.

Recovery - Total Feet <u>2750</u>	GIP <u>N/A</u>	Ft. in DC <u>N/A</u>	Ft. in DP <u>2750</u>
Rec. <u>120</u> Feet of <u>MCSW</u>	%gas _____	%oil _____	%water <u>90</u> %mud <u>10</u>
Rec. <u>2630</u> Feet of <u>Salt Water</u>	%gas _____	%oil <u>100</u>	%water _____ %mud _____
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____ %mud _____

BHT 117° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .06 @ 70 °F Chlorides 15000 ppm Recovery \_\_\_\_\_ Chlorides 7,000 ppm System

(A) Initial Hydrostatic Mud <u>2251</u> PSI	Recorder No. <u>6625</u>	Test <input checked="" type="checkbox"/> <u>800</u>
(B) First Initial Flow Pressure <u>152</u> PSI	(depth) <u>4470'</u>	Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
(C) First Final Flow Pressure <u>788</u> PSI	Recorder No. <u>10000 13769</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
(D) Initial Shut-In Pressure <u>1574</u> PSI	(depth) <u>4490'</u>	Safety Jt. <input checked="" type="checkbox"/> <u>50</u>
(E) Second Initial Flow Pressure <u>825</u> PSI	Recorder No. <u>10991</u>	Circ Sub _____
(F) Second Final Flow Pressure <u>1342</u> PSI	(depth) <u>4752'</u>	Sampler _____
(G) Final Shut-In Pressure <u>1577</u> PSI	Initial Opening <u>30</u>	Straddle <input checked="" type="checkbox"/> <u>250</u>
(Q) Final Hydrostatic Mud <u>2126</u> PSI	Initial Shut-In <u>60</u>	Ext. Packer <input checked="" type="checkbox"/> <u>150</u>

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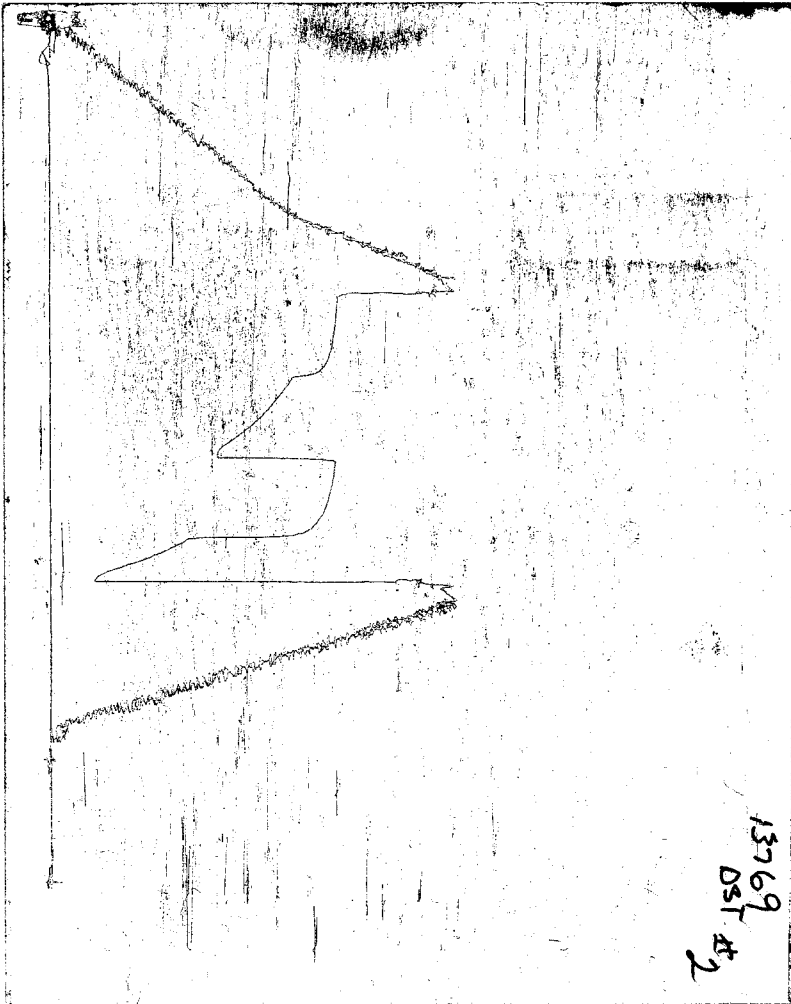
Approved By Ted Jochems Jr

Our Representative Darren J. Cymerino

Final Flow <u>60</u>	T-On Location <u>0715</u>	Sub Total: <u>1712.20</u>
Final Shut-In <u>60</u>	T-Started <u>0803</u>	Std. By <u>3/4</u> <u>97.50</u>
T-Open <u>1209</u>	T-Open <u>1209</u>	Other _____
T-Pulled <u>1534</u>	T-Pulled <u>1534</u>	Total: <u>1809.70</u>
T-Over <u>1938</u>	T-Over <u>1938</u>	

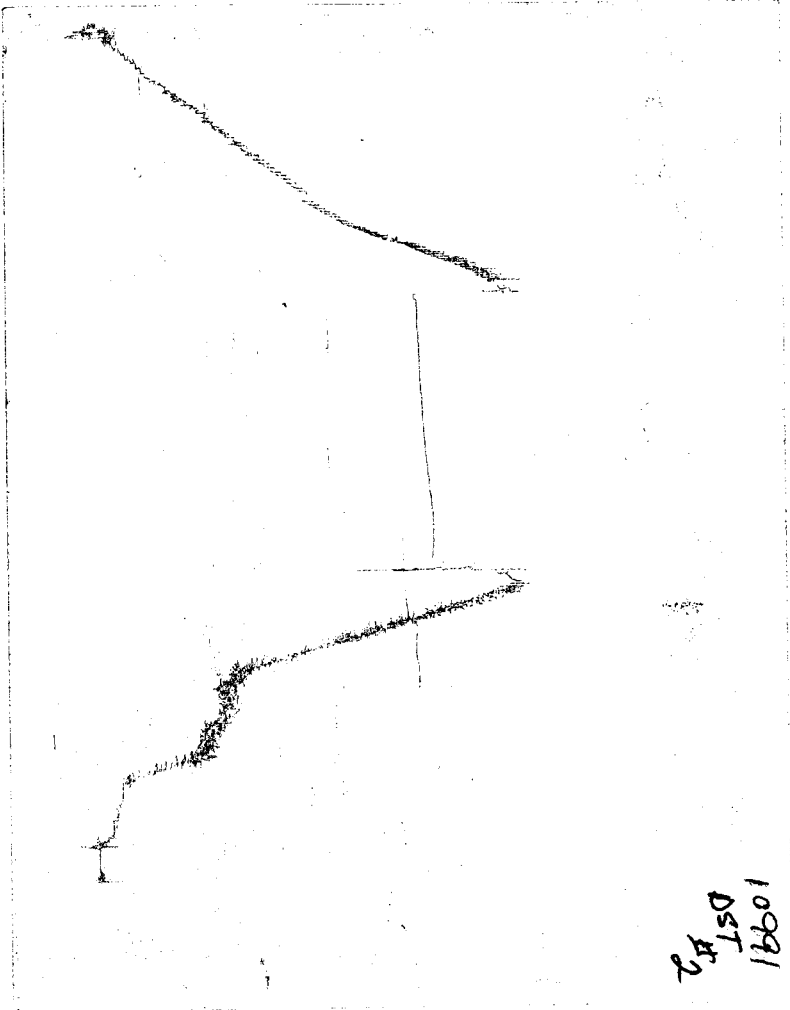
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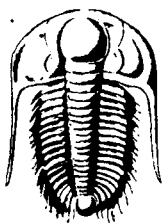
This is a photocopy of the actual AK-1 recorder chart



**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18626

05/03

## Test Ticket

Well Name & No. <u>Kimble #35-2</u>	Test No. <u>#3</u>	Date <u>2-9-04</u>
Company <u>Imperial Oil Properties, Inc. 200 E. 15<sup>th</sup></u>	Zone Tested <u>Drum</u>	
Address <u>Suite 418 Wichita, Ks. 67202</u>	Elevation <u>2032</u> KB <u>2021</u>	GL
Co. Rep / Geo. <u>Ted Jochems</u>	Cont. <u>Duke #1</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>35</u> Twp. <u>32S</u> Rge. <u>18W</u>	Co. <u>Comanche Co,</u>	State <u>KS</u>
No. of Copies <u>5</u>	Disbtribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested <u>4618 - 4649</u>	Initial Str Wt./Lbs. <u>68000</u>	Unseated Str Wt/Lbs. <u>69000</u>
Anchor Length <u>31'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>78000</u>
Top Packer Depth <u>N/A</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4618 f 4649</u>	Hole Size <u>7 7/8" ✓</u>	Rubber Size <u>6 3/4" ✓</u>
Total Depth <u>4755 106' Tailpipe</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>N/A</u>
Mud Wt. <u>9.1</u> LCM <u>0</u> Vis. <u>59</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2 KH</u>	Ft. Run <u>4719</u>

Blow Description IF: Strong blow p.o.b of diesel in 15 sec. 6 TS in 2 mins. Gauge  
ISI: Bled down for 20 mins. slight surface blow back.  
FF: Strong blow p.o.b of diesel in 15 sec. Gauge 60s.  
FSI: Bled down for 20 mins. surface blow back.

Recovery - Total Feet <u>125'</u>	GIP <u>4501'</u>	Ft. in DC <u>N/A</u>	Ft. in DP <u>125'</u>
Rec. <u>125'</u>	Feet of <u>6 1/2 WC M</u>	<u>10</u> %gas	<u>40</u> %oil <u>50</u> %water <u>50</u> %mud
Rec. <u>4501'</u>	Feet of <u>GIP</u>	%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

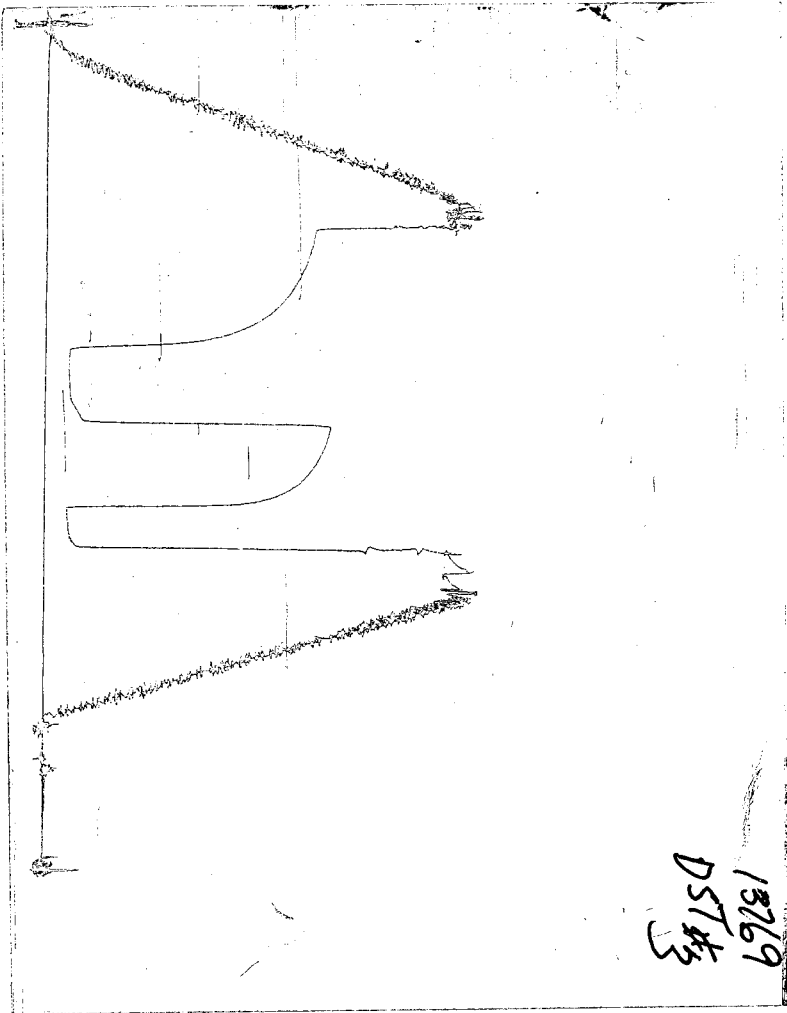
BHT 110° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .07 @ 70° °F Chlorides 95000 ppm Recovery \_\_\_\_\_ Chlorides 7000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2281</u> PSI		<u>6625</u>	<u>800</u>
(B) First Initial Flow Pressure	<u>99</u> PSI		(depth) <u>4624'</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure	<u>101</u> PSI		Recorder No. <u>13769</u>	Jars <u>200</u>
(D) Initial Shut-In Pressure	<u>1567</u> PSI		(depth) <u>4646'</u>	Safety Jt. <u>50</u>
(E) Second Initial Flow Pressure	<u>162</u> PSI		Recorder No. <u>10991</u>	Circ Sub _____
(F) Second Final Flow Pressure	<u>102</u> PSI		(depth) <u>4752'</u>	Sampler _____
(G) Final Shut-In Pressure	<u>1472</u> PSI	Initial Opening <u>30</u>		Straddle <u>250</u>
(Q) Final Hydrostatic Mud	<u>2279</u> PSI	Initial Shut-In <u>60</u>		Ext. Packer <u>150</u>
		Final Flow <u>60</u>		Shale Packer _____
		Final Shut-In <u>90</u>		Mileage <u>16000</u>
		T-On Location <u>2030</u>		Sub Total: <u>1 1/2</u> <u>45</u>
		T-Started <u>0243</u>		Std. By _____
		T-Open <u>0619</u>		Other _____
		T-Pulled <u>1019</u>		Total: <u>1645.00</u>
		T-Out <u>1335</u>		

Approved By Ted Jochems  
 Our Representative Darren Plummer

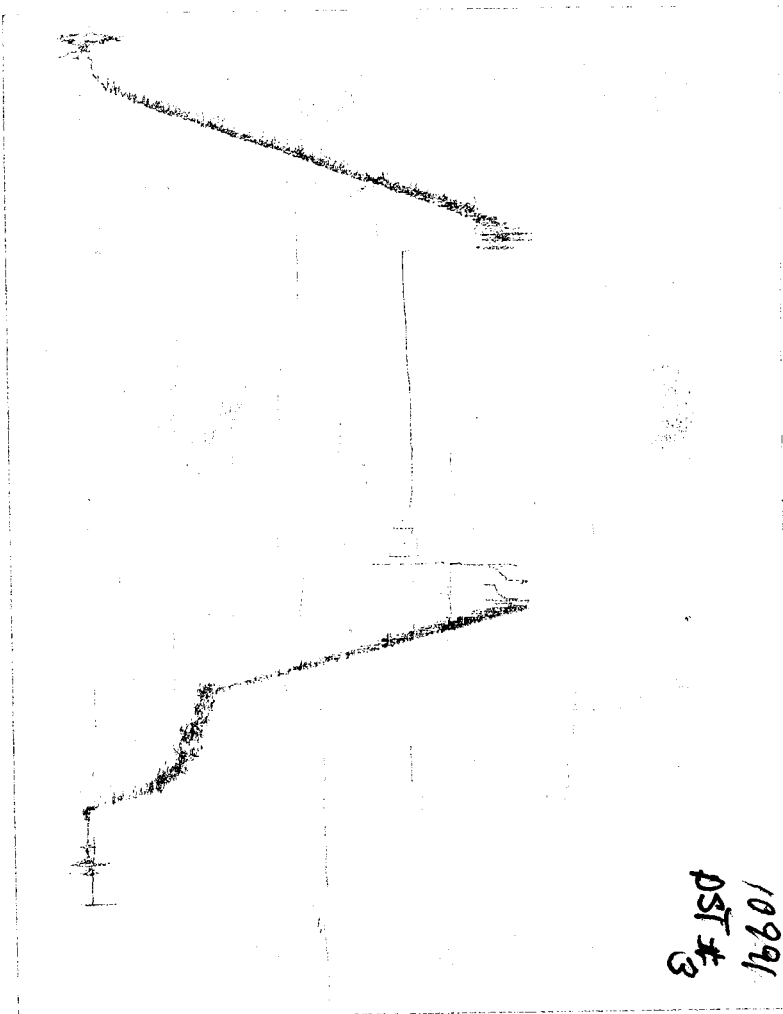
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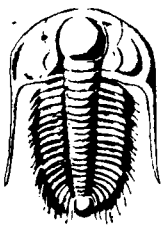
This is a photocopy of the actual AK-1 recorder chart



# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18627

05/03

## Test Ticket

Well Name & No. Kimble #35-2 Test No. #4 Date 2-10-04  
 Company Imperial Oil Properties, Inc. 200 East Zone Tested Hertha  
 Address 1st Suite 413 Wichita, Ks. 67202 Elevation 2032 KB 2021 GL  
 Co. Rep / Geo. Ted Jochems Cont. Duke #1 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 35 Twp. 32S Rge. 18W Co. Comanche, Co. State Ks  
 No. of Copies 5 Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 4814' - 4834' Initial Str Wt./Lbs. 68000 Unseated Str Wt/Lbs. 69000  
 Anchor Length 20' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 80000  
 Top Packer Depth 4809' Tool Weight 2100  
 Bottom Packer Depth 4814' Hole Size 7-7/8" Rubber Size 6 3/4"  
 Total Depth 4834' Wt. Pipe Run N/A Drill Collar Run N/A  
 Mud Wt. 4.0 LCM -0- Vis. 49 WL 13.6 Drill Pipe Size 4 1/2 XH Ft. Run 4810'

Blow Description IF: Strong blow b.o.b of diesel in 15 sec.  
ISI: Bled down for 2 mins. No blow back.  
FF: Fair blow b.o.b in 3 mins.  
FST: Bled down for 10 mins. Very slight blow back.

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>240'</u>	<u>2250'</u>	<u>N/A</u>	<u>240'</u>
Rec. <u>120'</u>	Feet of <u>56CM</u>	<u>6</u> %gas	<u>94</u> %oil %water %mud
Rec. <u>120'</u>	Feet of <u>56' 10000 MCW</u>	<u>4</u> %gas	<u>85</u> %oil %water <u>10</u> %mud
Rec. <u>2250'</u>	Feet of <u>GIP</u>	%gas	%oil %water %mud
Rec. _____	Feet of _____	%gas	%oil %water %mud
Rec. _____	Feet of _____	%gas	%oil %water %mud

BHT 118 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .08 @ 70 °F Chlorides 100000 ppm Recovery \_\_\_\_\_ Chlorides 11,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2419</u>	PSI	<u>6625</u>	<u>800</u>
(B) First Initial Flow Pressure	<u>53</u>	PSI	(depth) <u>4816'</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure	<u>80</u>	PSI	Recorder No. <u>13769</u>	Jars <u>200</u>
(D) Initial Shut-In Pressure	<u>755</u>	PSI	(depth) <u>4831'</u>	Safety Jt. <u>50</u>
(E) Second Initial Flow Pressure	<u>94</u>	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>129</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>398</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2300</u>	PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
			Final Flow <u>60</u>	Shale Packer _____
			Final Shut-In <u>60</u>	Mileage <u>112.20</u>
			T-On Location <u>0230</u>	Sub Total: <u>1312.20</u>
			T-Started <u>0343</u>	Std. By <u>2 1/2</u> <u>75</u>
			T-Open <u>0722</u>	Other _____
			T-Pulled <u>1052</u>	Total: <u>1387.20</u>
			T-Out <u>1357</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 Ted Jochems Jr  
 Our Representative Darren L. Limerine

# CHART PAGE

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

