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

**DRILL STEM TEST REPORT**

Prepared For: **Imperial American Oil, Corp.**

10004 W. 20th St N.  
Wichita, KS 67212

ATTN: Hal Porter

**18-12-16 Ellis KS**

**Brungardt #18-1**

Start Date: 2001.08.17 @ 14:04:18

End Date: 2001.08.17 @ 19:45:17

Job Ticket #: 14904                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Imperial American Oil, Corp.

Brungardt #18-1

18-12-16 Ellis KS

DST # 1

A-D

LKC

2001.08.17



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Imperial American Oil, Corp.  
10004 W. 20th St N.  
Wichita, KS 67212  
ATTN: Hal Porter

**Brungardt #18-1**  
**18-12-16 Ellis KS**  
Job Ticket: 14904      DST#: 1  
Test Start: 2001.08.17 @ 14:04:18

**GENERAL INFORMATION:**

Formation: **A-D LKC**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 15:54:17  
Time Test Ended: 19:45:17  
  
Interval: **3267.00 ft (KB) To 3327.00 ft (KB) (TVD)**  
Total Depth: **3327.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Fair

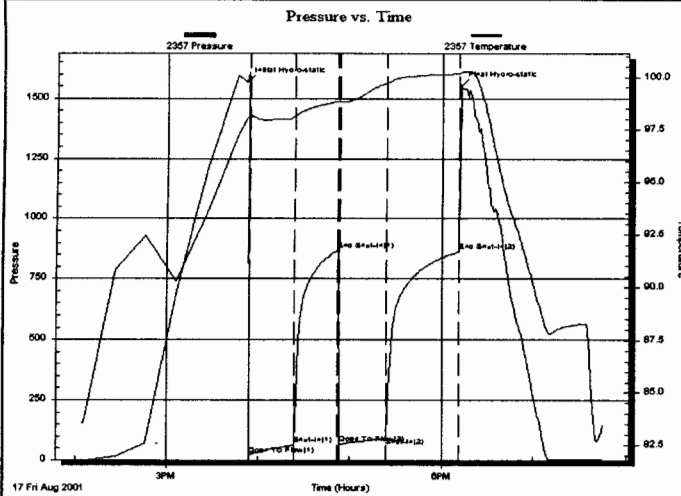
Test Type: Conventional Bottom Hole  
Tester: Dan Bangle  
Unit No: 21  
  
Reference Elevations: 2047.00 ft (KB)  
2042.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 2357**

**Inside**

Press@RunDepth: 90.87 psig @ 3274.01 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2001.08.17      End Date: 2001.08.17      Last Calib.: 2001.01.20  
Start Time: 14:04:18      End Time: 19:45:17      Time On Btm: 2001.08.17 @ 15:52:17  
Time Off Btm: 2001.08.17 @ 18:12:17

TEST COMMENT: IF-Weak-building to 1 1/2"  
FF-Weak steady surface blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1567.72	98.07	Initial Hydro-static
2	20.65	98.18	Open To Flow (1)
31	62.27	98.15	Shut-in(1)
60	867.74	98.86	End Shut-in(1)
61	65.43	98.86	Open To Flow (2)
91	90.87	99.70	Shut-in(2)
139	862.46	100.17	End Shut-in(2)
140	1552.34	100.21	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
130.00	Mud w / few oil specks	0.64

**Gas Rates**

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

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**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Imperial American Oil, Corp.

**Brungardt #18-1**

10004 W. 20th St N.  
Wichita, KS 67212

**18-12-16 Ellis KS**

ATTN: Hal Porter

**CONFIDENTIAL**

Job Ticket: 14904

DST#: 1

Test Start: 2001.08.17 @ 14:04:18

**Tool Information**

Drill Pipe:	Length: 3073.00 ft	Diameter: 3.80 inches	Volume: 43.11 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 43.98 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	3.01 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3267.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	60.02 ft			
Tool Length:	81.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

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Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3247.00	
S.I. Tool	5.00			3252.00	
HMV	5.00			3257.00	
Packer	5.00			3262.00	21.00 Bottom Of Top Packer
Packer	5.00			3267.00	
Stubb	1.00			3268.00	
Perforations	5.00			3273.00	
C.O. Sub	1.00			3274.00	
Recorder	0.01	2357	Inside	3274.01	
Blank Spacing	31.00			3305.01	
C.O. Sub	1.00			3306.01	
Recorder	0.01	13254	Outside	3306.02	
Perforations	18.00			3324.02	
Bullnose	3.00			3327.02	60.02 Bottom Packers & Anchor

**Total Tool Length: 81.02**

100556



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

### DRILL STEM TEST REPORT

**FLUID SUMMARY**

Imperial American Oil, Corp.

**Brungardt #18-1**

10004 W. 20th St N.  
Wichita, KS 67212

**18-12-16 Ellis KS**

Job Ticket: 14904

**DST#: 1**

ATTN: Hal Porter

Test Start: 2001.08.17 @ 14:04:18

#### 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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

#### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Mud w / few oil specks	0.639

Total Length: 130.00 ft      Total Volume: 0.639 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 2357

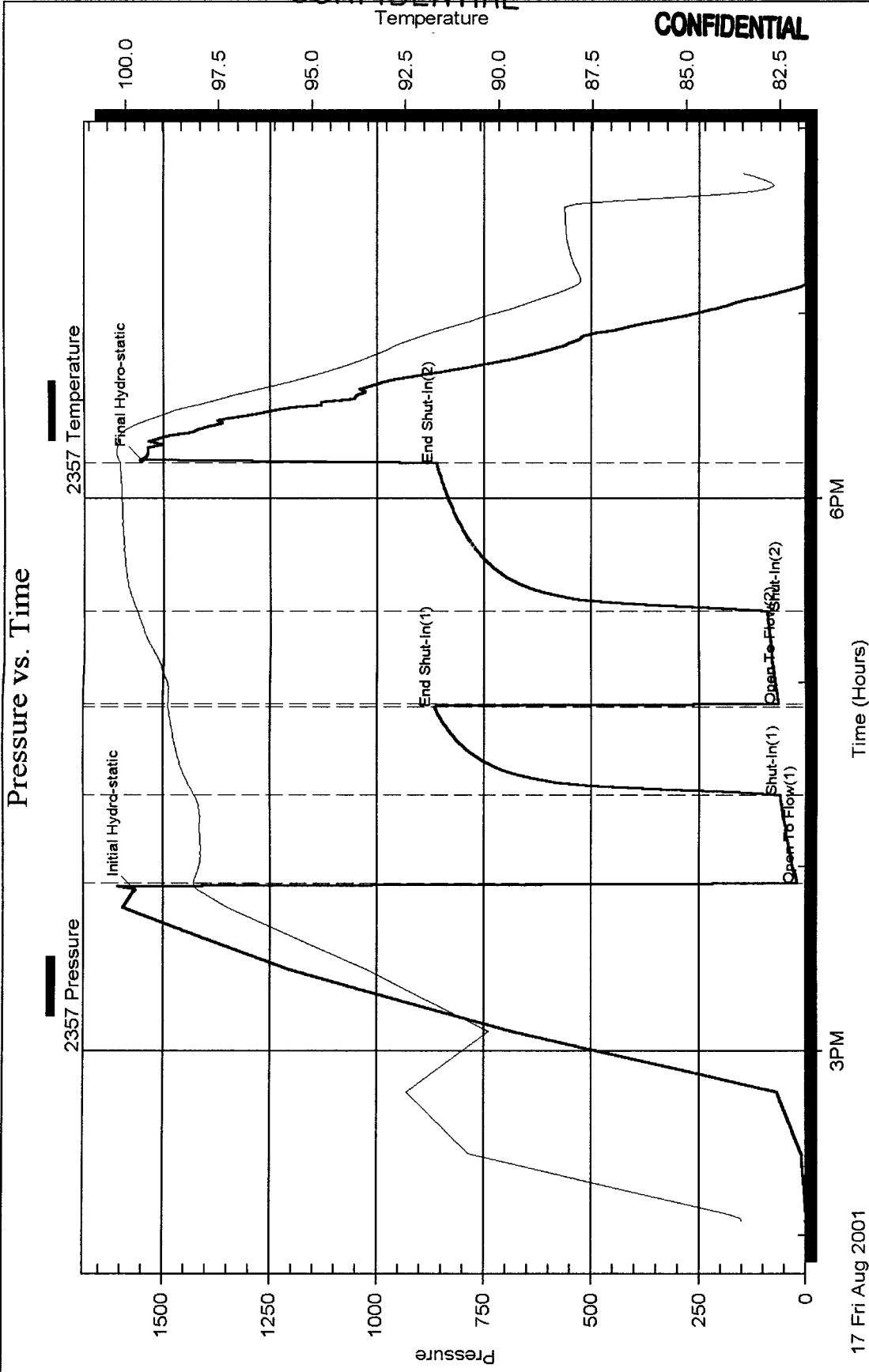
Inside

Imperial American Oil, Corp.

18-12-16 Ellis KS

DST Test Number: 1

### Pressure vs. Time



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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Imperial American Oil, Corp.**

10004 W. 20th St N.  
Wichita, KS 67212

ATTN: Hal Porter

**18-12-16 Ellis KS**

**Brungardt #18-1**

Start Date: 2001.08.18 @ 11:57:32

End Date: 2001.08.18 @ 15:41:02

Job Ticket #: 14905                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Imperial American Oil, Corp.

Brungardt #18-1

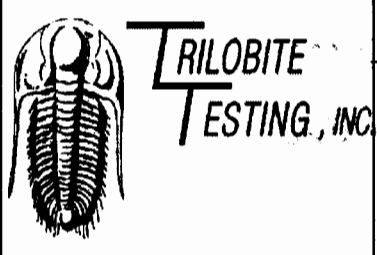
18-12-16 Ellis KS

DST # 2

H-I

LKC

2001.08.18



# DRILL STEM TEST REPORT

Imperial American Oil, Corp.

**Brungardt #18-1**

10004 W. 20th St N.  
Wichita, KS 67212

**18-12-16 Ellis KS**

Job Ticket: 14905      DST#: 2

ATTN: Hal Porter

Test Start: 2001.08.18 @ 11:57:32

## GENERAL INFORMATION:

Formation:      H-I      LKC

Deviated:      No      Whipstock:      ft (KB)

Time Tool Opened: 13:41:02

Time Test Ended: 15:41:02

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval:      3385.00 ft (KB) To 3437.00 ft (KB) (TVD)

Total Depth:      3437.00 ft (KB) (TVD)

Hole Diameter:      7.88 inches      Hole Condition: Fair

Reference Elevations:      2047.00 ft (KB)

2042.00 ft (CF)

KB to GR/CF:      5.00 ft

**Serial #: 2357**

**Inside**

Press@RunDepth:      25.98 psig @      3392.01 ft (KB)

Capacity:      7000.00 psig

Start Date:      2001.08.18

End Date:

2001.08.18

Last Calib.:

2001.01.20

Start Time:

11:57:33

End Time:

17:11:02

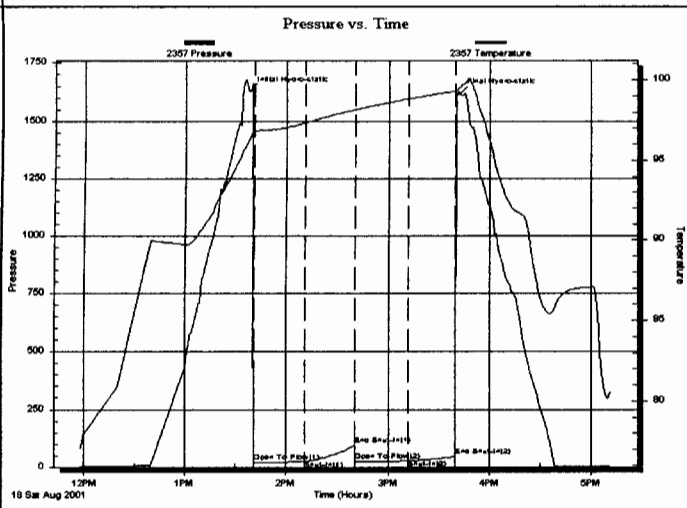
Time On Btm:

2001.08.18 @ 13:38:02

Time Off Btm:

2001.08.18 @ 15:42:02

TEST COMMENT: IF-Weak died in 6 min  
FF No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.60	96.41	Initial Hydro-static
3	18.85	96.81	Open To Flow (1)
33	22.84	97.37	Shut-In(1)
62	95.39	98.18	End Shut-In(1)
63	24.28	98.19	Open To Flow (2)
94	25.98	98.84	Shut-In(2)
122	44.64	99.32	End Shut-In(2)
124	1617.50	99.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w / oil show	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Imperial American Oil, Corp.

**KCC**

**Brungardt #18-1**

10004 W. 20th St N.  
Wichita, KS 67212

**OCT 14 2001**

**18-12-16 Ellis KS**

Job Ticket: 14905

**DST#: 2**

ATTN: Hal Porter

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Test Start: 2001.08.18 @ 11:57:32

**Tool Information**

Drill Pipe:	Length: 3199.00 ft	Diameter: 3.80 inches	Volume: 44.87 bbl	Tool Weight: 1700.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 60000.00 lb
			<b>Total Volume: 45.74 bbl</b>	Tool Chased 0.01 ft
Drill Pipe Above KB:	11.01 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3385.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.02 ft			
Tool Length:	73.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3365.00	
S.I. Tool	5.00			3370.00	
HMV	5.00			3375.00	
Packer	5.00			3380.00	21.00 Bottom Of Top Packer
Packer	5.00			3385.00	
Stubb	1.00			3386.00	
Perforations	5.00			3391.00	
C.O. Sub	1.00			3392.00	
Recorder	0.01	2357	Inside	3392.01	
Blank Spacing	31.00			3423.01	
C.O. Sub	1.00			3424.01	
Recorder	0.01	13254	Outside	3424.02	
Perforations	10.00			3434.02	
Bullnose	3.00			3437.02	52.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>73.02</b>				



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Imperial American Oil, Corp.

**Brungardt #18-1**

10004 W. 20th St N.  
Wichita, KS 67212

**18-12-16 Ellis KS**

ATTN: Hal Porter

Job Ticket: 14905

**DST#: 2**

Test Start: 2001.08.18 @ 11:57:32

**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: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w / oil show	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

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DST Test Number: 2

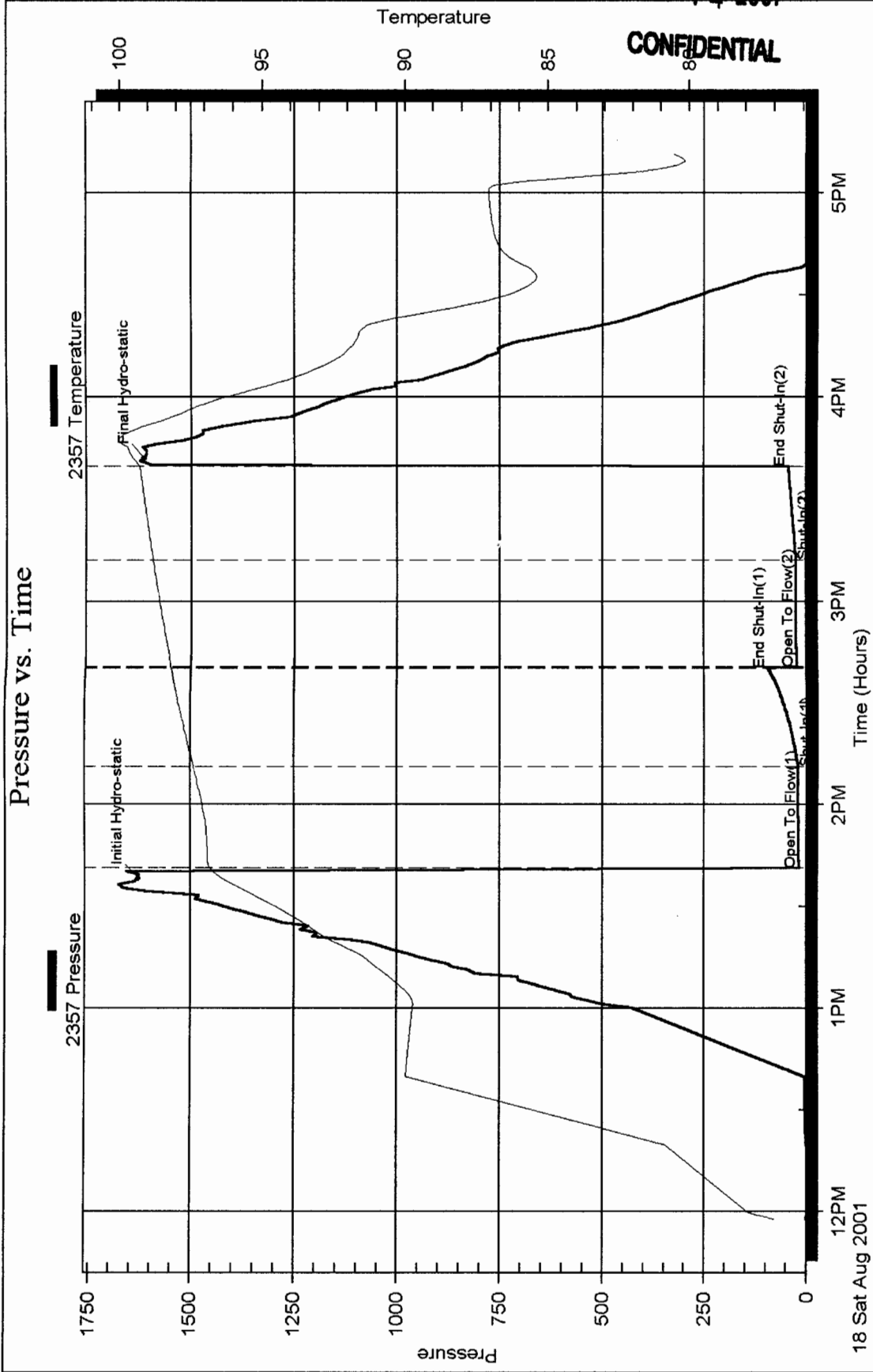
18-12-16 Ellis KS

Imperial American Oil, Corp.

Inside

Serial #: 2357

### Pressure vs. Time



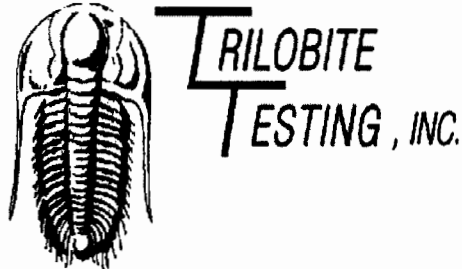
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**DRILL STEM TEST REPORT**

Prepared For: **Imperial American Oil, Corp.**

10004 W. 20th St N.  
Wichita, KS 67212

ATTN: Hal Porter

**18-12-16 Ellis KS**

**Brungardt #18-1**

Start Date: 2001.08.19 @ 09:46:28

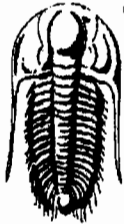
End Date: 2001.08.19 @ 13:37:28

Job Ticket #: 14906      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

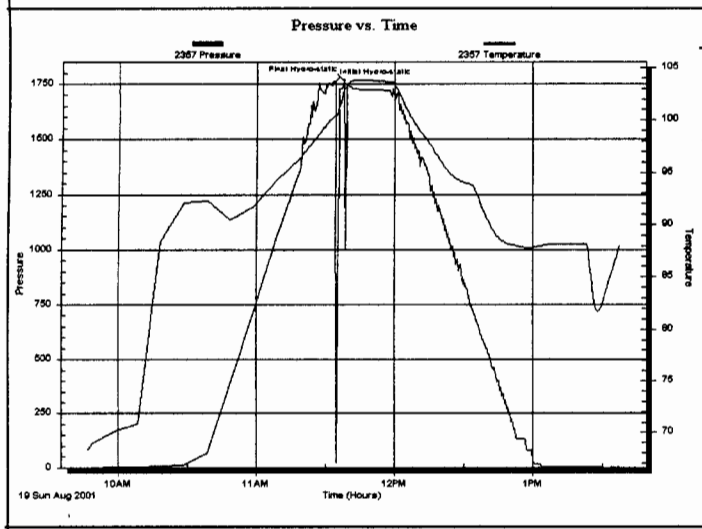
 <p><b>TRILOBITE TESTING, INC.</b></p>	<b>DRILL STEM TEST REPORT</b>	
	Imperial American Oil, Corp. 10004 W. 20th St N. Wichita, KS 67212  ATTN: Hal Porter	<b>Brungardt #18-1</b>  <b>18-12-16 Ellis KS</b> Job Ticket: 14906 <b>DST#: 3</b> Test Start: 2001.08.19 @ 09:46:28

**GENERAL INFORMATION:**

Formation: <b>Arbuckle</b>	Test Type: Conventional Bottom Hole
Deviated: No Whipstock:                      ft (KB)	Tester: Dan Bangle
Time Tool Opened: 11:45:00	Unit No: 21
Time Test Ended: 13:37:28	Reference Elevations: 2047.00 ft (KB)
Interval: <b>3553.00 ft (KB) To 3569.00 ft (KB) (TVD)</b>	2042.00 ft (CF)
Total Depth: 3569.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

<b>Serial #: 2357</b> <b>Inside</b>	Capacity: 7000.00 psig
Press@RunDepth:                      psig @ 3554.01 ft (KB)	Last Calib.: 2001.01.20
Start Date: 2001.08.19      End Date: 2001.08.19	Time On Btm: 2001.08.19 @ 11:32:58
Start Time: 09:46:29      End Time: 13:37:28	Time Off Btm: 2001.08.19 @ 11:37:58

**TEST COMMENT:** Packer failure



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1751.45	100.24	Initial Hydro-static
5	1764.58	102.84	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
330.00	Drilling mud	3.03

Gas Rates			
	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

OCT 14 2001



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

TOOL DIAGRAM

Imperial American Oil, Corp.  
  
10004 W. 20th St N.  
Wichita, KS 67212  
  
ATTN: Hal Porter

~~CONFIDENTIAL~~  
Brungardt #18-1  
  
18-12-16 Ellis KS  
Job Ticket: 14906  
Test Start: 2001.08.19 @ 09:46:28

DST#: 3

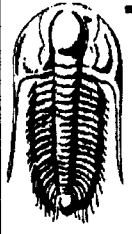
**Tool Information**

Drill Pipe:	Length: 3385.00 ft	Diameter: 3.80 inches	Volume: 47.48 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 65000.00 lb
			<b>Total Volume: 48.35 bbl</b>	Tool Chased 0.01 ft
Drill Pipe Above KB:	29.01 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3553.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.02 ft			
Tool Length:	37.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments: Packer failure				

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3533.00	
S.I. Tool	5.00			3538.00	
HMV	5.00			3543.00	
Packer	5.00			3548.00	21.00 Bottom Of Top Packer
Packer	5.00			3553.00	
Stubb	1.00			3554.00	
Recorder	0.01	2357	Inside	3554.01	
Perforations	12.00			3566.01	
Recorder	0.01	13254	Outside	3566.02	
Bullnose	3.00			3569.02	16.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>37.02</b>				

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**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Imperial American Oil, Corp.

**Brungardt #18-1**

10004 W. 20th St N.  
Wichita, KS 67212

**18-12-16 Ellis KS**

Job Ticket: 14906

**DST#: 3**

ATTN: Hal Porter

Test Start: 2001.08.19 @ 09:46:28

## 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: 8.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	Drilling mud	3.026

Total Length: 330.00 ft      Total Volume: 3.026 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

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DST Test Number: 3

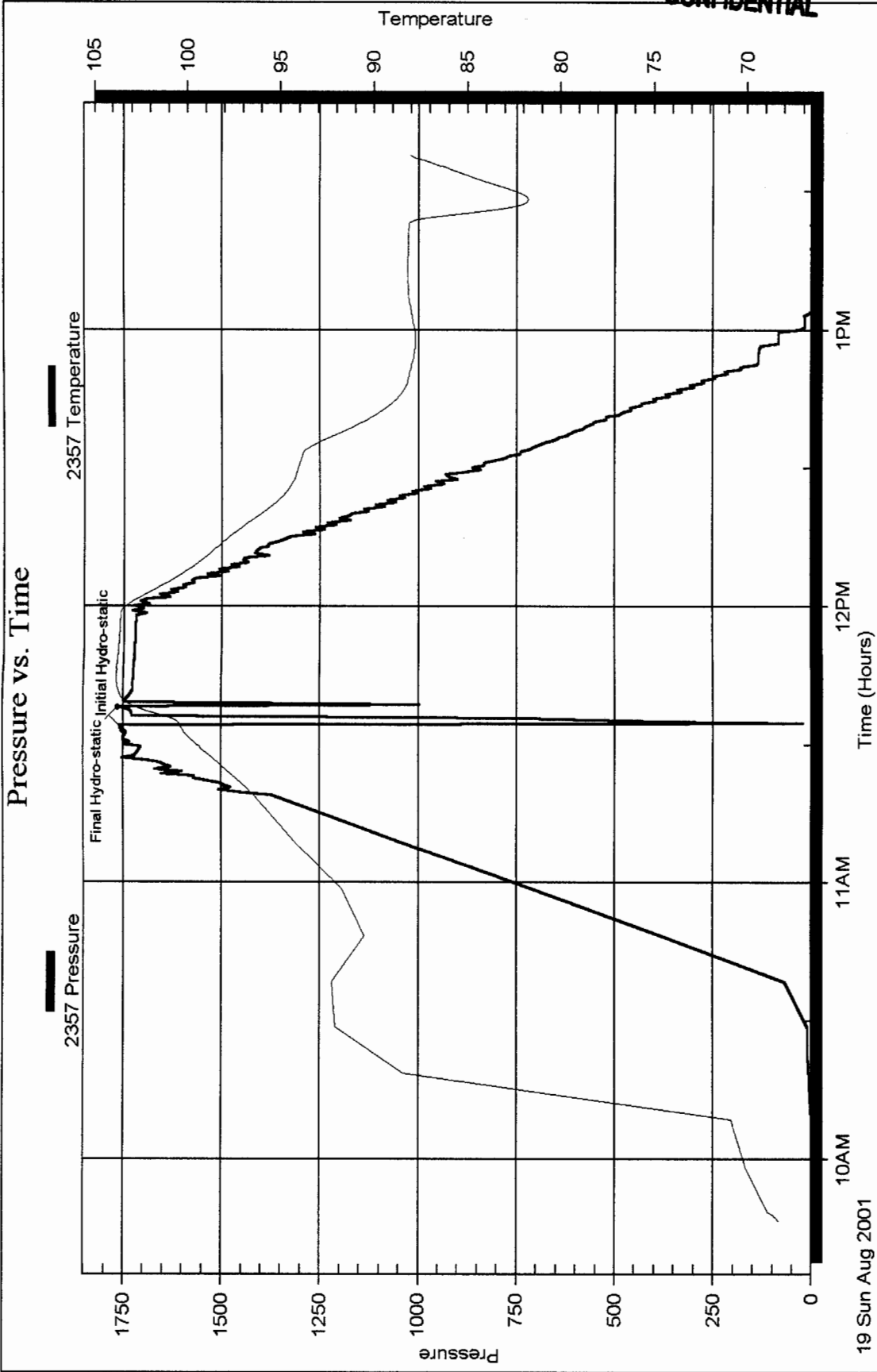
18-12-16 Blis KS

Imperial American Oil, Corp.

Inside

Serial #: 2357

### Pressure vs. Time



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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Imperial American Oil, Corp.**

10004 W. 20th St N.  
Wichita, KS 67212

ATTN: Hal Porter

**18-12-16 Ellis KS**

**Brungardt #18-1**

Start Date: 2001.08.19 @ 13:49:15

End Date: 2001.08.19 @ 18:47:45

Job Ticket #: 14907                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

TOOL DIAGRAM

Imperial American Oil, Corp.

**KCC**

Brungardt #18-1

10004 W. 20th St N.  
Wichita, KS 67212

**OCT 14 2001**

18-12-16 Ellis KS

Job Ticket: 14907

DST#: 4

ATTN: Hal Porter

**CONFIDENTIAL**

Test Start: 2001.08.19 @ 13:49:15

**Tool Information**

Drill Pipe:	Length: 3377.00 ft	Diameter: 3.80 inches	Volume: 47.37 bbl	Tool Weight: 900.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 176.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 48.24 bbl		Tool Chased 0.01 ft
Drill Pipe Above KB:	13.01 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3561.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.01 ft			
Tool Length:	29.01 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3541.00	
S.I. Tool	5.00			3546.00	
HMV	5.00			3551.00	
Packer	5.00			3556.00	21.00 Bottom Of Top Packer
Packer	5.00			3561.00	
Stubb	1.00			3562.00	
Recorder	0.01	2357	Inside	3562.01	
Perforations	4.00			3566.01	
Bullnose	3.00			3569.01	8.01 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>29.01</b>				



**TRILOBITE TESTING, INC.**

### DRILL STEM TEST REPORT

### FLUID SUMMARY

Imperial American Oil, Corp.

**Brungardt #18-1**

10004 W. 20th St N.  
Wichita, KS 67242

**18-12-16 Ellis KS**

Job Ticket: 14907

**DST#: 4**

ATTN: Hal Porter

Test Start: 2001.08.19 @ 13:49:15

#### 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: 8.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

#### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Drilling mud	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 4

18-12-16 Ellis KS

Imperial American Oil, Corp.

Inside

Serial #: 2357

