

26-11S-16W
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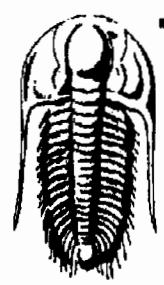
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Imperial American**
303 N Carroll Blvd #214
Denton TX 75201

ATTN: Hal Porter

sc26 tp11S rg 16w

Ella #26-1

Start Date: 2002.05.17 @ 22:55:08
End Date: 2002.05.18 @ 05:23:32
Job Ticket #: 15062 DST #: 1

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

Imperial American
Ella #26-1
sc26 tp11S rg 16w
DST # 1
LKC A-D
2002.05.17

98425

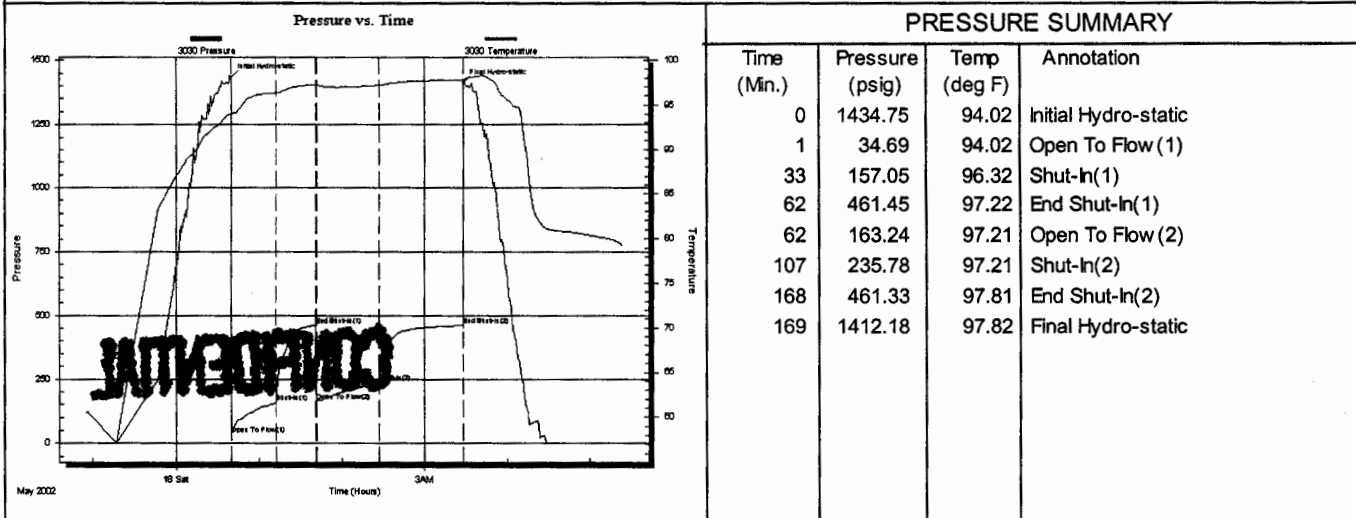
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Imperial American 303 N Carroll Blvd #214 Denton TX 75201 ATTN: Hal Porter	Ella #26-1 sc26 tp11S rg 16w Job Ticket: 15062 Test Start: 2002.05.17 @ 22:55:08

GENERAL INFORMATION:

Formation: LKC A-D Deviated: No Whipstock: ft (KB) Time Tool Opened: 00:40:03 Time Test Ended: 05:23:32 Interval: 2918.00 ft (KB) To 2995.00 ft (KB) (TVD) Total Depth: 2995.00 ft (KB) (TVD) Hole Diameter: 7.85 inches Hole Condition: Fair	Test Type: Conventional Bottom Hole Tester: Jack Fox Unit No: 11 Reference Elevations: 1723.00 ft (KB) 1718.00 ft (CF) KB to GR/CF: 5.00 ft
--	--

Serial #: 3030 Press@RunDepth: 235.78 psig @ 2921.51 ft (KB) Start Date: 2002.05.17 Start Time: 22:55:08	Inside End Date: 2002.05.18 End Time: 05:23:32	Capacity: 7000.00 psig Last Calib.: 2001.04.10 Time On Btm: 2002.05.18 @ 00:39:48 Time Off Btm: 2002.05.18 @ 03:28:02
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TEST COMMENT: IF BOB in 4min 30sec strong blow
 FF BOB in 3min 45sec strong blow



Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
743.00	GIP	8.40			
30.00	OCM 10%gas 20%oil 70%mud	0.42			
540.00	Gassy oil 50%gas 40%oil 10% mud	7.57			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American

Ella #26-1

303 N Carroll Blvd #214
Denton TX 75201

sc26 tp11S rg 16w

Job Ticket: 15062

DST#: 1

ATTN: Hal Porter

Test Start: 2002.05.17 @ 22:55:08

Tool Information

Drill Pipe:	Length: 2775.00 ft	Diameter: 3.80 inches	Volume: 38.93 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: 30000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 38.93 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	2918.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.57 ft			
Tool Length:	95.57 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			2903.00	
HYD S.I. Tool	5.00			2908.00	
Packer	5.00			2913.00	20.00 Bottom Of Top Packer
Packer	5.00			2918.00	
Stubb	1.00			2919.00	
Perforations	2.00			2921.00	
C.O. Sub	0.50			2921.50	
Recorder	0.01	3030	Inside	2921.51	
Blank Spacing	62.00			2983.51	
C.O. Sub	0.05	3306	Inside	2983.56	
Perforations	5.00			2988.56	
Recorder	0.01	13267	Outside	2988.57	
Bullnose	5.00			2993.57	75.57 Bottom Packers & Anchor

Total Tool Length: 95.57

98425

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Imperial American 303 N Carroll Blvd #214 Denton TX 75201 ATTN: Hal Porter	Ella #26-1 sc26 tp11S rg 16w Job Ticket: 15062 DST#: 1 Test Start: 2002.05.17 @ 22:55:08	

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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.16 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information		
Recovery Table		
Length ft	Description	Volume bbl
743.00	GIP	8.402
30.00	OCM 10%gas 20%oil 70%mud	0.421
540.00	Gassy oil 50%gas 40%oil 10% mud	7.575

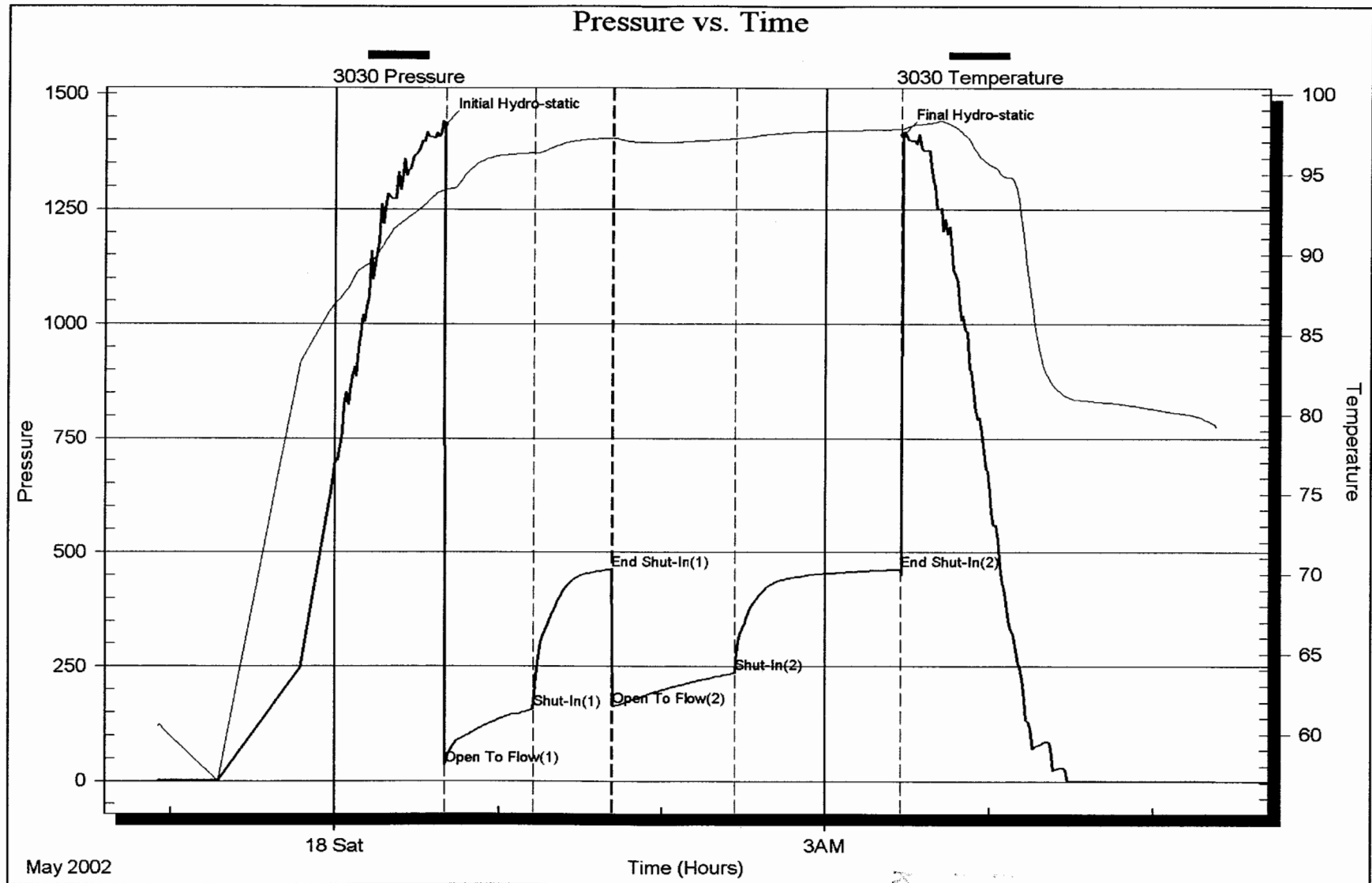
Total Length: 1313.00 ft	Total Volume: 16.398 bbl	
Num Fluid Samples: 0	Num Gas Bombs: 0	Serial #:
Laboratory Name:	Laboratory Location:	
Recovery Comments:		

Serial #: 3030

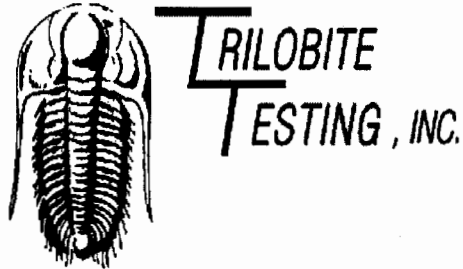
Inside Imperial American

sc26 tp11S rg 16w

DST Test Number: 1



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DRILL STEM TEST REPORT

Prepared For: **Imperial American**

303 N Carroll Blvd #214
Denton TX 75201

ATTN: Hal Porter

sc26 tp11S rg 16w

Ella #26-1

Start Date: 2002.05.18 @ 13:32:03

End Date: 2002.05.18 @ 19:14:42

Job Ticket #: 15063 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

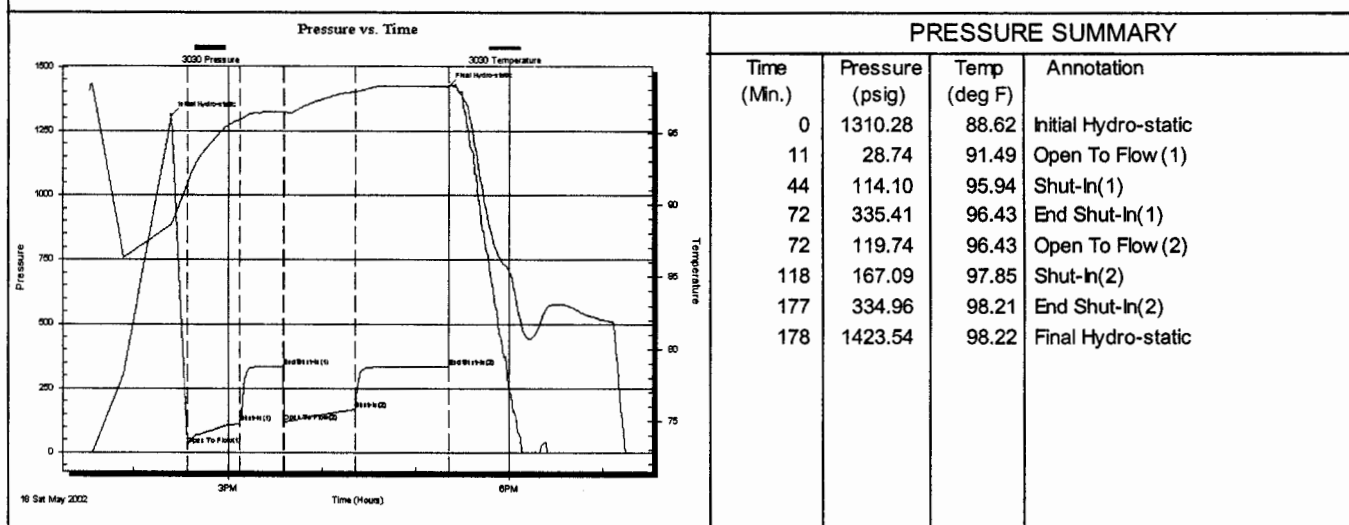
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Imperial American	Ella #26-1
	303 N Carroll Blvd #214 Denton TX 75201	sc26 tp11S rg 16w
	ATTN: Hal Porter	Job Ticket: 15063 DST#: 2 Test Start: 2002.05.18 @ 13:32:03

GENERAL INFORMATION:

Formation: LKC " F " Deviated: No Whipstock: ft (KB) Time Tool Opened: 14:34:13 Time Test Ended: 19:14:42 Interval: 2993.00 ft (KB) To 3028.00 ft (KB) (TVD) Total Depth: 3028.00 ft (KB) (TVD) Hole Diameter: 7.85 inches Hole Condition: Fair	Test Type: Conventional Bottom Hole Tester: Jack Fox Unit No: 11 Reference Elevations: 1723.00 ft (KB) 1718.00 ft (CF) KB to GR/CF: 5.00 ft
--	--

Serial #: 3030 Inside Press@RunDepth: 167.09 psig @ 2994.01 ft (KB) Start Date: 2002.05.18 End Date: 2002.05.18 Start Time: 13:32:03 End Time: 19:14:42	Capacity: 7000.00 psig Last Calib.: 2001.04.10 Time On Btm: 2002.05.18 @ 14:23:58 Time Off Btm: 2002.05.18 @ 17:21:28
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TEST COMMENT: IF BOB in 4min 10 sec strong blow
 FF BOB in 4 min 45 sec strong blow

**Recovery**

Length (ft)	Description	Volume (bbl)
1227.00	GIP	16.29
50.00	mud 10%gas 30%oil 60%mud	0.70
360.00	gassy oil 60%gas 30%oil 10%mud	5.05

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

Ella #26-1

303 N Carroll Blvd #214
Denton TX 75201

sc26 tp11S rg 16w

Job Ticket: 15063

DST#: 2

ATTN: Hal Porter

Test Start: 2002.05.18 @ 13:32:03

Tool Information

Drill Pipe:	Length: 2837.00 ft	Diameter: 3.80 inches	Volume: 39.80 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: 30000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.80 inches	Volume: 1.10 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 40.90 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	2993.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.02 ft			
Tool Length:	55.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			2978.00		
HYD S.I. Tool	5.00			2983.00		
Packer	5.00			2988.00	20.00	Bottom Of Top Packer
Packer	5.00			2993.00		
Stubb	1.00			2994.00		
Recorder	0.01	3030	Inside	2994.01		
Perforations	29.00			3023.01		
Recorder	0.01	13371	Outside	3023.02		
Bullnose	5.00			3028.02	35.02	Bottom Packers & Anchor
Total Tool Length:	55.02					


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Imperial American

Ella #26-1

303 N Carroll Blvd #214
Denton TX 75201

sc26 tp11S rg 16w

Job Ticket: 15063

DST#: 2

ATTN: Hal Porter

Test Start: 2002.05.18 @ 13:32:03

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:

bbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1227.00	GIP	16.288
50.00	mud 10%gas 30%oil 60%mud	0.701
360.00	gassy oil 60%gas 30%oil 10%mud	5.050

Total Length: 1637.00 ft

Total Volume: 22.039 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

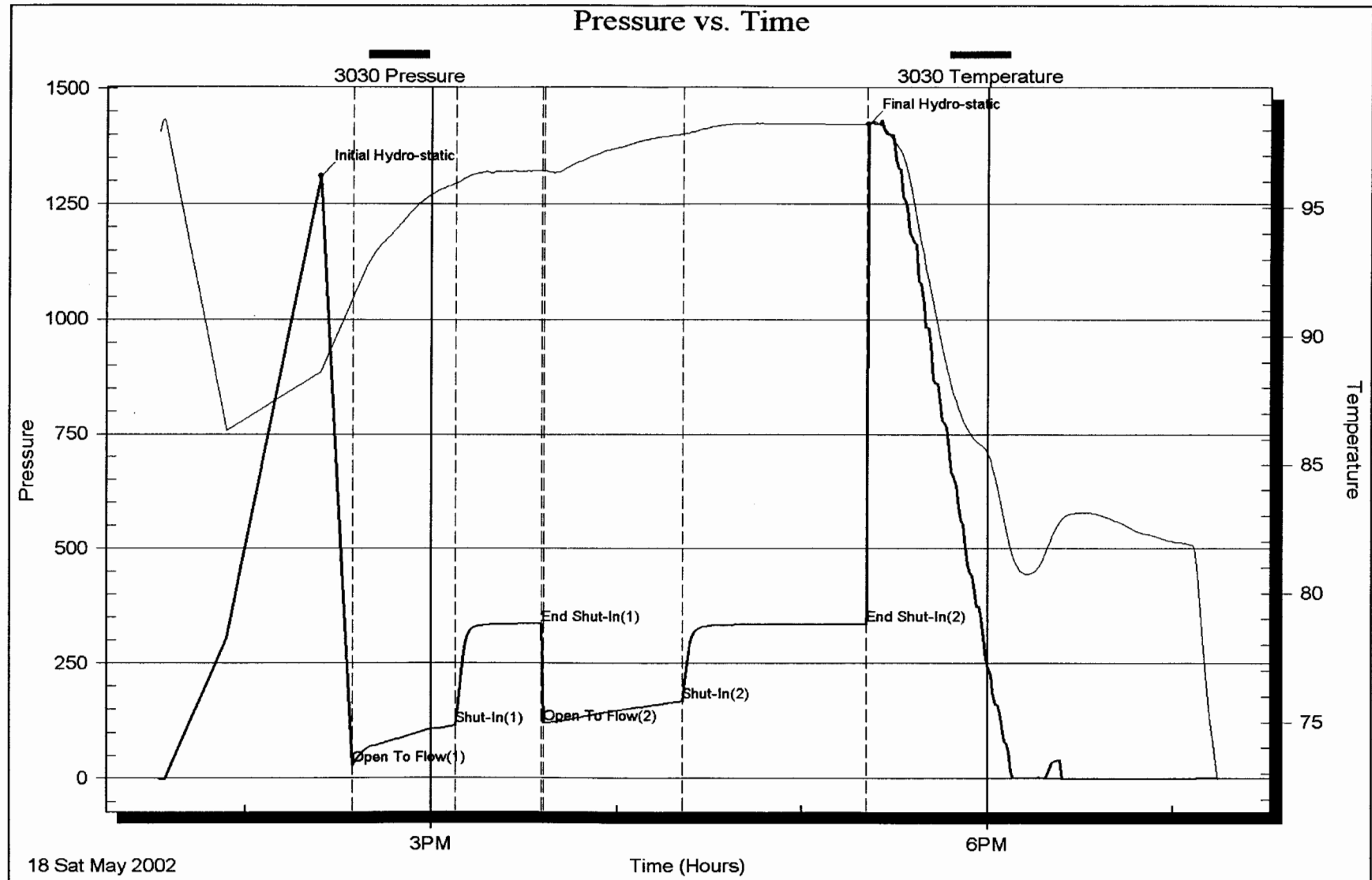
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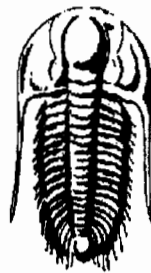
Serial #: 3030

Inside Imperial American

sc26 tp11S rg 16w

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Imperial American**

303 N Carroll Blvd #214
Denton TX 75201

ATTN: Hal Porter

sc26 tp11S rg 16w

Ella #26-1

Start Date: 2002.05.19 @ 02:05:15

End Date: 2002.05.19 @ 08:21:24

Job Ticket #: 15064

DST #: 3

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Imperial American

Ella #26-1

sc26 tp11S rg 16w

DST # 3

LKC "G"

2002.05.19

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Imperial American
303 N Carroll Blvd #214
Denton TX 75201
ATTN: Hal Porter

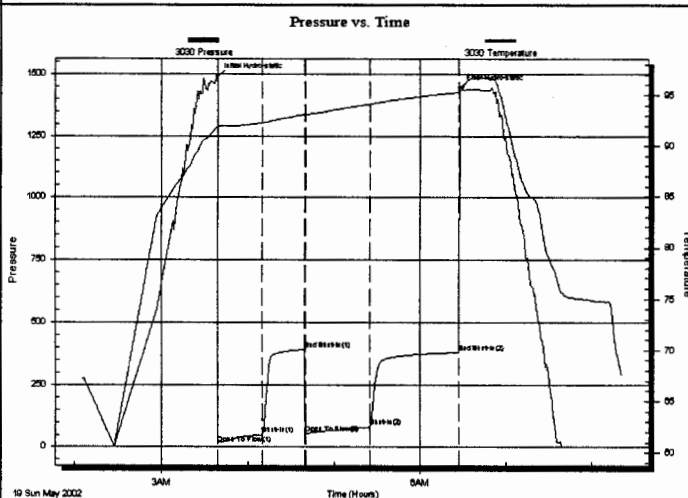
Ella #26-1
sc26 tp11S rg 16w
Job Ticket: 15064 **DST#: 3**
Test Start: 2002.05.19 @ 02:05:15

GENERAL INFORMATION:

Formation: **LKC "G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:39:10
Time Test Ended: 08:21:24
Interval: **3028.00 ft (KB) To 3050.00 ft (KB) (TVD)**
Total Depth: 3050.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Jack Fox
Unit No: 11
Reference Elevations: 1723.00 ft (KB)
1718.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3030 Inside
Press@RunDepth: 81.19 psig @ 3029.01 ft (KB)
Start Date: 2002.05.19 End Date: 2002.05.19
Start Time: 02:05:15 End Time: 08:21:24
Capacity: 7000.00 psig
Last Calib.: 2001.04.10
Time On Btm: 2002.05.19 @ 03:38:55
Time Off Btm: 2002.05.19 @ 06:27:39

TEST COMMENT: IF BOB in 6 min 30sec strong blow
FF BOB in 5 min 10 sec strong blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1488.47	91.96	Initial Hydro-static
1	14.30	91.96	Open To Flow (1)
32	50.89	92.30	Shut-In(1)
61	390.45	93.11	End Shut-In(1)
62	57.66	93.13	Open To Flow (2)
107	81.19	94.12	Shut-In(2)
169	379.48	95.28	End Shut-In(2)
169	1442.08	95.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
450.00	GIP	5.39
270.00	gassy oil 20% gas 80% oil	3.79

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

Ella #26-1

303 N Carroll Blvd #214
Denton TX 75201

sc26 tp11S rg 16w

Job Ticket: 15064

DST#: 3

ATTN: Hal Porter

Test Start: 2002.05.19 @ 02:05:15

Tool Information

Drill Pipe:	Length: 2896.00 ft	Diameter: 3.80 inches	Volume: 40.62 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.80 inches	Volume: 1.10 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 41.72 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	3028.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.02 ft				
Tool Length:	42.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			3013.00		
HYD S.I. Tool	5.00			3018.00		
Packer	5.00			3023.00	20.00	Bottom Of Top Packer
Packer	5.00			3028.00		
Stubb	1.00			3029.00		
Recorder	0.01	3030	Inside	3029.01		
Perforations	16.00			3045.01		
Recorder	0.01	13267	Outside	3045.02		
Bullnose	5.00			3050.02	22.02	Bottom Packers & Anchor
Total Tool Length:	42.02					

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		FLUID SUMMARY
	Imperial American 303 N Carroll Blvd #214 Denton TX 75201 ATTN: Hal Porter	Ella #26-1 sc26 tp11S rg 16w Job Ticket: 15064 DST#: 3 Test Start: 2002.05.19 @ 02:05:15	

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume:		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
Salinity: ppm			
Filter Cake: inches			

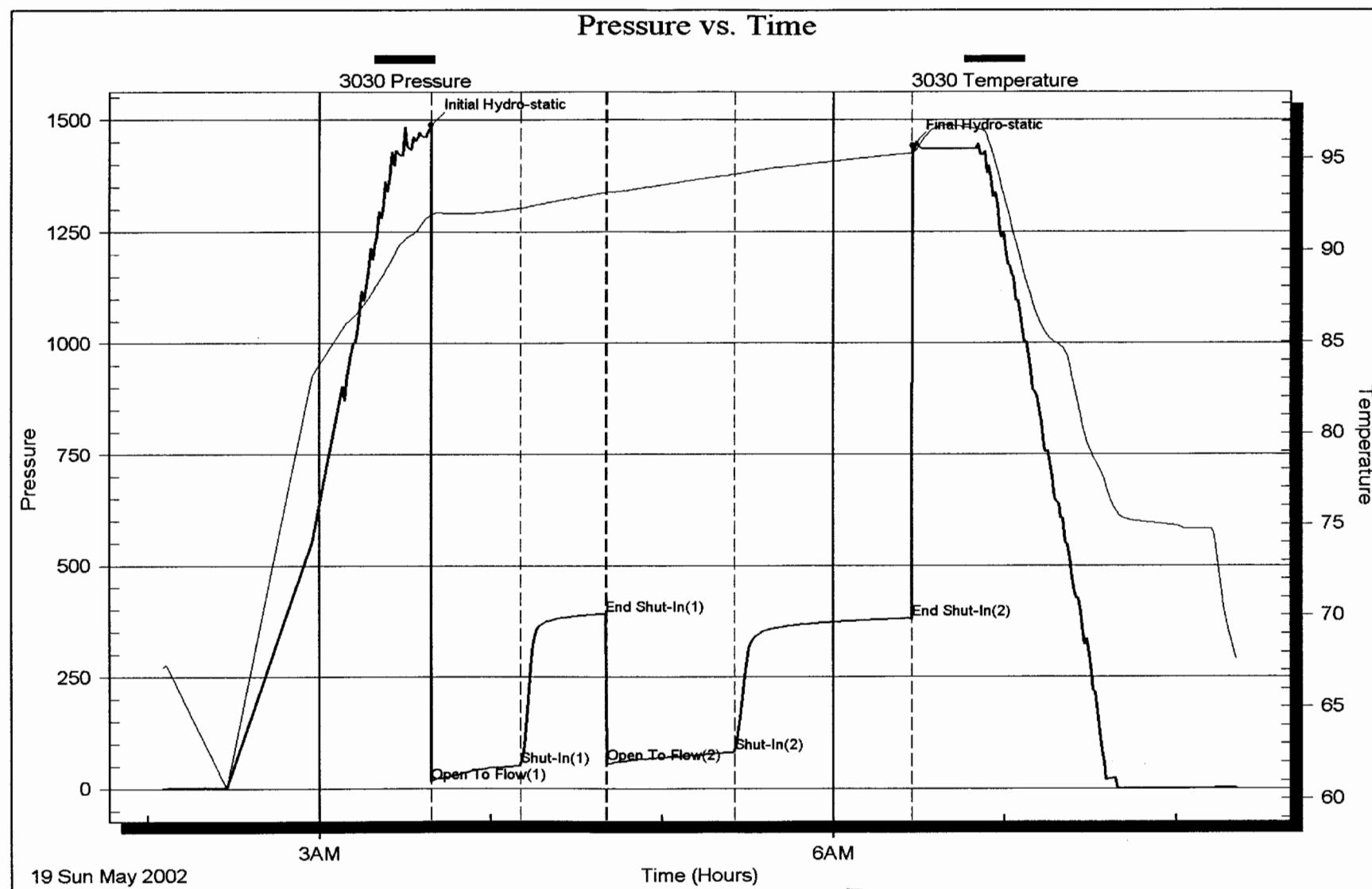
Recovery Information

Recovery Table

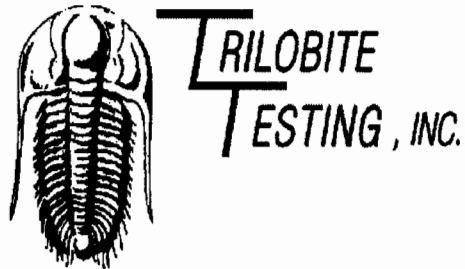
Length ft	Description	Volume bbl
450.00	GIP	5.389
270.00	gassy oil 20% gas 80% oil	3.787

Total Length: 720.00 ft Total Volume: 9.176 bbl

 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



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DRILL STEM TEST REPORT

Prepared For: **Imperial American**

303 N Carroll Blvd #214
Denton TX 75201

ATTN: Hal Porter

sc26 tp11S rg 16w

Ella #26-1

Start Date: 2002.05.20 @ 15:45:51

End Date: 2002.05.20 @ 20:37:19

Job Ticket #: 15065 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

Imperial American
303 N Carroll Blvd #214
Denton TX 75201
ATTN: Hal Porter

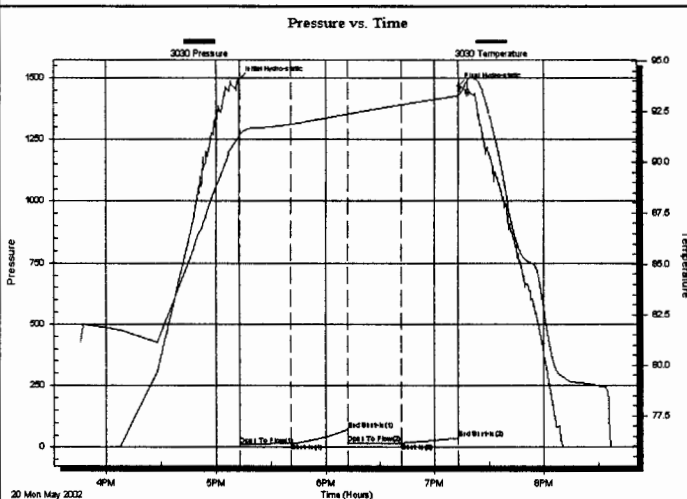
Ella #26-1
sc26 tp11S rg 16w
Job Ticket: 15065 DST#: 4
Test Start: 2002.05.20 @ 15:45:51

GENERAL INFORMATION:

Formation: **LKC H-I**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 17:12:49
Time Test Ended: 20:37:19
Interval: **3053.00 ft (KB) To 3103.00 ft (KB) (TVD)**
Total Depth: **3103.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Jack Fox
Unit No: 11
Reference Elevations: 1723.00 ft (KB)
1718.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: **3030** Inside
Press@RunDepth: 19.09 psig @ 3056.01 ft (KB)
Start Date: 2002.05.20 End Date: 2002.05.20
Start Time: 15:45:51 End Time: 20:37:19
Capacity: 7000.00 psig
Last Calib.: 2001.04.10
Time On Btm: 2002.05.20 @ 17:12:34
Time Off Btm: 2002.05.20 @ 19:13:04

TEST COMMENT: IF weak blow @ surf blow died in 5 min
FF no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1491.17	91.26	Initial Hydro-static
1	11.60	91.30	Open To Flow (1)
29	16.28	91.87	Shut-In(1)
60	72.28	92.38	End Shut-In(1)
60	17.71	92.39	Open To Flow (2)
89	19.09	92.83	Shut-In(2)
121	38.59	93.27	End Shut-In(2)
121	1465.47	93.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	oil specked mud	0.04

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

Ella #26-1

303 N Carroll Blvd #214
Denton TX 75201

sc26 tp11S rg 16w

Job Ticket: 15065

DST#: 4

ATTN: Hal Porter

Test Start: 2002.05.20 @ 15:45:51

Tool Information

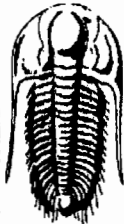
Drill Pipe:	Length:	2896.00 ft	Diameter:	3.80 inches	Volume:	40.62 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	144.00 ft	Diameter:	2.80 inches	Volume:	1.10 bbl	Weight to Pull Loose:	85000.00 lb
					Total Volume:	41.72 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft						String Weight: Initial	68000.00 lb
Depth to Top Packer:	3053.00 ft						Final	68000.00 lb
Depth to Bottom Packer:	ft							
Interval between Packers:	50.02 ft							
Tool Length:	70.02 ft							
Number of Packers:	2	Diameter:	6.75 inches					

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3038.00	
HYD S.I. Tool	5.00			3043.00	
Packer	5.00			3048.00	20.00
Packer	5.00			3053.00	
Stubb	1.00			3054.00	
Perforations	1.00			3055.00	
C.O. Sub	1.00			3056.00	
Recorder	0.01	3030	Inside	3056.01	
Blank Spacing	31.00			3087.01	
C.O. Sub	1.00			3088.01	
Perforations	10.00			3098.01	
Recorder	0.01	13371	Outside	3098.02	
Bullnose	5.00			3103.02	50.02

Total Tool Length: 70.02

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Imperial American 303 N Carroll Blvd #214 Denton TX 75201 ATTN: Hal Porter	Ella #26-1 sc26 tp11S rg 16w Job Ticket: 15065 DST#:4 Test Start: 2002.05.20 @ 15:45:51	

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	oil specked mud	0.038

Total Length: 5.00 ft Total Volume: 0.038 bbl

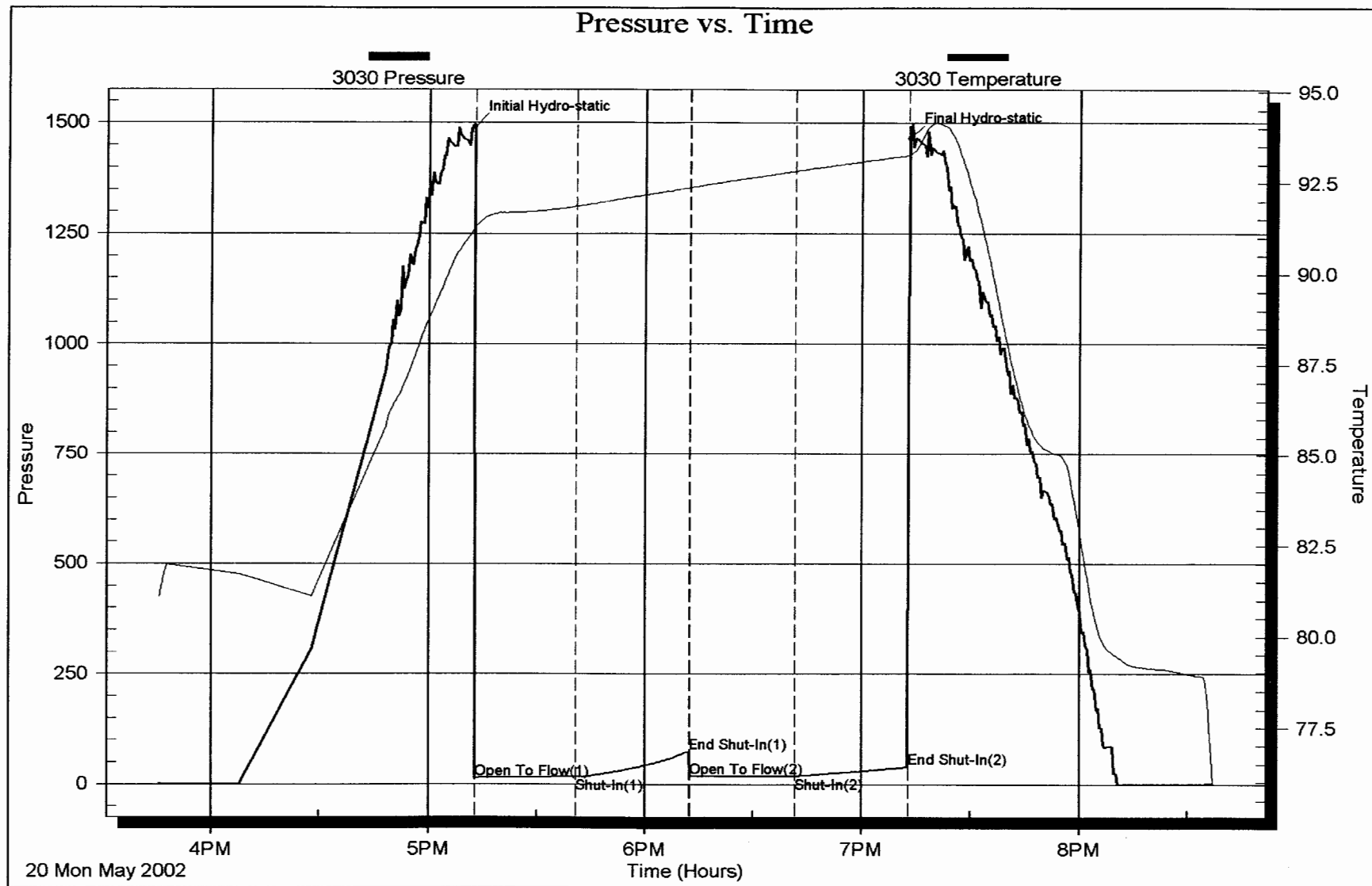
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 3030

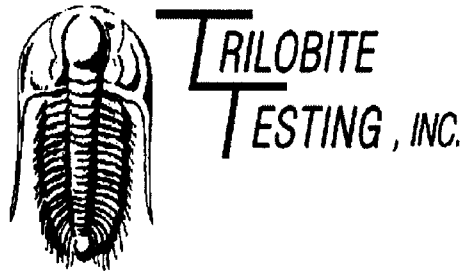
Inside Imperial American

sc26 tp11S rg 16w

DST Test Number: 4



Release
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DRILL STEM TEST REPORT

Prepared For: **Imperial American**

303 N Carroll Blvd #214
Denton TX 75201

ATTN: Hal Porter

sc26 tp11S rg 16w

Ella #26-1

Start Date: 2002.05.21 @ 06:17:49

End Date: 2002.05.21 @ 11:28:32

Job Ticket #: 15066 DST #: 5

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 American

Ella #26-1

303 N Carroll Blvd #214
Denton TX 75201

sc26 tp11S rg 16w

Job Ticket: 15066

DST#: 5

ATTN: Hal Porter

Test Start: 2002.05.21 @ 06:17:49

GENERAL INFORMATION:

Formation: **LKC "J"**Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 08:12:17

Time Test Ended: 11:28:32

Test Type: Conventional Bottom Hole

Tester: Jack Fox

Unit No: 11

Interval: **3100.00 ft (KB) To 3128.00 ft (KB) (TVD)**

Reference Elevations: 1723.00 ft (KB)

Total Depth: 3128.00 ft (KB) (TVD)

1718.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 3030

Inside

Press@RunDepth: 22.35 psig @ 3104.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2002.05.21

End Date:

2002.05.21

Last Calib.:

2001.04.10

Start Time:

06:17:49

End Time:

11:28:32

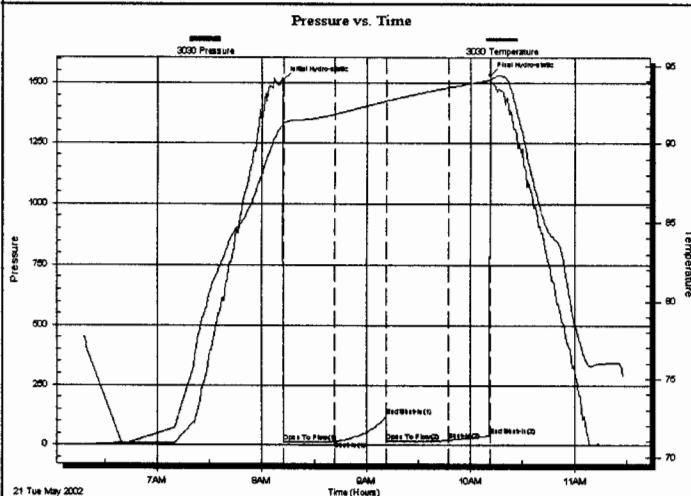
Time On Btm:

2002.05.21 @ 08:12:02

Time Off Btm:

2002.05.21 @ 10:11:17

TEST COMMENT: IF weak blow @ surf blow died in 6min F
FF no blow



PRESSURE SUMMARY

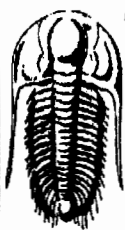
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1512.38	91.25	Initial Hydro-static
1	12.16	91.28	Open To Flow (1)
30	15.80	91.88	Shut-In(1)
60	121.75	92.73	End Shut-In(1)
60	17.26	92.75	Open To Flow (2)
96	22.35	93.59	Shut-In(2)
119	41.70	94.07	End Shut-In(2)
120	1532.24	94.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	oil specked mud	0.02

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

Ella #26-1

303 N Carroll Blvd #214
Denton TX 75201

sc26 tp11S rg 16w

Job Ticket: 15066

DST#: 5

ATTN: Hal Porter

Test Start: 2002.05.21 @ 06:17:49

Tool Information

Drill Pipe:	Length: 2958.00 ft	Diameter: 3.80 inches	Volume: 41.49 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:	30000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.80 inches	Volume: 1.10 bbl	Weight to Pull Loose:	85000.00 lb
		Total Volume:	42.59 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	69000.00 lb
Depth to Top Packer:	3100.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.02 ft				
Tool Length:	53.02 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3085.00	
HYD S.I. Tool	5.00			3090.00	
Packer	5.00			3095.00	20.00 Bottom Of Top Packer
Packer	5.00			3100.00	
Stubb	1.00			3101.00	
Perforations	3.00			3104.00	
Recorder	0.01	3030	Inside	3104.01	
Perforations	24.00			3128.01	
Recorder	0.01	13371	Outside	3128.02	
Bullnose	5.00			3133.02	33.02 Bottom Packers & Anchor
Total Tool Length:	53.02				

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		FLUID SUMMARY
	Imperial American 303 N Carroll Blvd #214 Denton TX 75201 ATTN: Hal Porter	Ella #26-1 sc26 tp11S rg 16w Job Ticket: 15066 DST#: 5 Test Start: 2002.05.21 @ 06:17:49	

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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information		
Recovery Table		
Length ft	Description	Volume bbl
2.00	oil specked mud	0.015

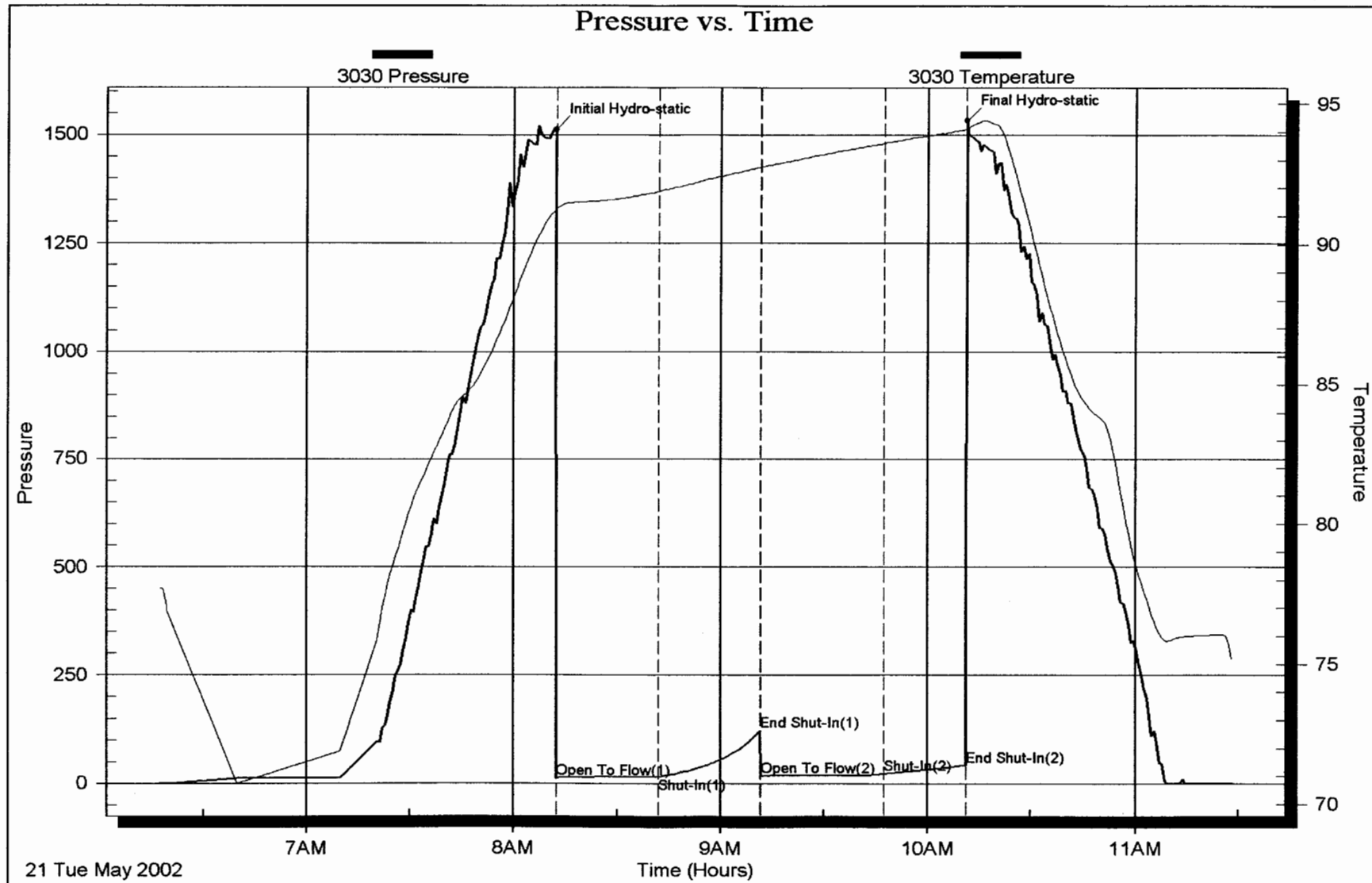
Total Length: 2.00 ft	Total Volume: 0.015 bbl
Num Fluid Samples: 0	Num Gas Bombs: 0 Serial #:
Laboratory Name:	Laboratory Location:
Recovery Comments:	

Serial #: 3030

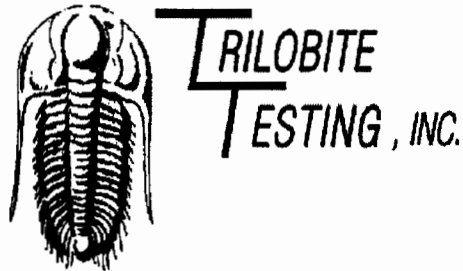
Inside Imperial American

sc26 tp11S rg 16w

DST Test Number: 5



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DRILL STEM TEST REPORT

Prepared For: **Imperial American**

303 N Carroll Blvd #214
Denton TX 75201

ATTN: Hal Porter

sc26 tp11S rg 16w

Ella #26-1

Start Date: 2002.05.21 @ 19:40:03

End Date: 2002.05.22 @ 01:57:31

Job Ticket #: 15067 DST #: 6

Trilobite Testing, Inc

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Imperial American

Ella #26-1

303 N Carroll Blvd #214
Denton TX 75201

sc26 tp11S rg 16w

Job Ticket: 15067

DST#: 6

ATTN: Hal Porter

Test Start: 2002.05.21 @ 19:40:03

GENERAL INFORMATION:

Formation: **LKC "K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:15:01

Time Test Ended: 01:57:31

Test Type: Conventional Bottom Hole

Tester: Jack Fox

Unit No: 11

Interval: **3125.00 ft (KB) To 3184.00 ft (KB) (TVD)**

Reference Elevations: 1723.00 ft (KB)

Total Depth: 3184.00 ft (KB) (TVD)

1718.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 3030

Inside

Press@RunDepth: 108.01 psig @ 3131.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2002.05.21

End Date:

2002.05.22

Last Calib.: 2002.05.22

Start Time: 19:40:03

End Time:

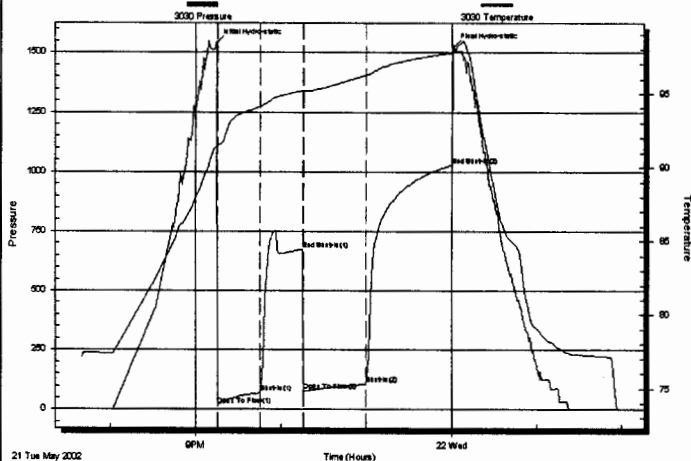
01:57:31

Time On Btm: 2002.05.21 @ 21:14:46

Time Off Btm: 2002.05.22 @ 00:01:16

TEST COMMENT: IF weak blow @ surf building to BOB in 16 min
FF weak blow @ surf building to BOB in 12 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1539.96	91.45	Initial Hydro-static
1	17.16	91.48	Open To Flow (1)
31	70.64	94.13	Shut-In (1)
61	671.81	95.20	End Shut-In (1)
61	78.83	95.20	Open To Flow (2)
105	108.01	96.26	Shut-In (2)
166	1025.40	97.76	End Shut-In (2)
167	1525.28	97.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GIP	0.95
255.00	gassy oil 20% gas 60% oil 20% mud	3.46

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

Ella #26-1

303 N Carroll Blvd #214
Denton TX 75201

sc26 tp11S rg 16w

Job Ticket: 15067

DST#: 6

ATTN: Hal Porter

Test Start: 2002.05.21 @ 19:40:03

Tool Information

Drill Pipe:	Length: 2980.00 ft	Diameter: 3.80 inches	Volume: 41.80 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: 30000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.80 inches	Volume: 1.10 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	42.90 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3125.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.02 ft			
Tool Length:	79.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

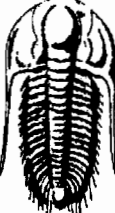
Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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S.I. Tool	5.00			3110.00	
HYD S.I. Tool	5.00			3115.00	
Packer	5.00			3120.00	20.00 Bottom Of Top Packer
Packer	5.00			3125.00	
Stubb	1.00			3126.00	
Perforations	4.00			3130.00	
C.O. Sub	1.00			3131.00	
Recorder	0.01	3030	Inside	3131.01	
Blank Spacing	32.00			3163.01	
C.O. Sub	1.00			3164.01	
Perforations	15.00			3179.01	
Recorder	0.01	13371	Outside	3179.02	
Bullnose	5.00			3184.02	59.02 Bottom Packers & Anchor

Total Tool Length: 79.02

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Imperial American 303 N Carroll Blvd #214 Denton TX 75201 ATTN: Hal Porter	Ella #26-1 sc26 tp11S rg 16w Job Ticket: 15067 DST#: 6 Test Start: 2002.05.21 @ 19:40:03	

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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	GIP	0.952
255.00	gassy oil 20% gas 60% oil 20% mud	3.455

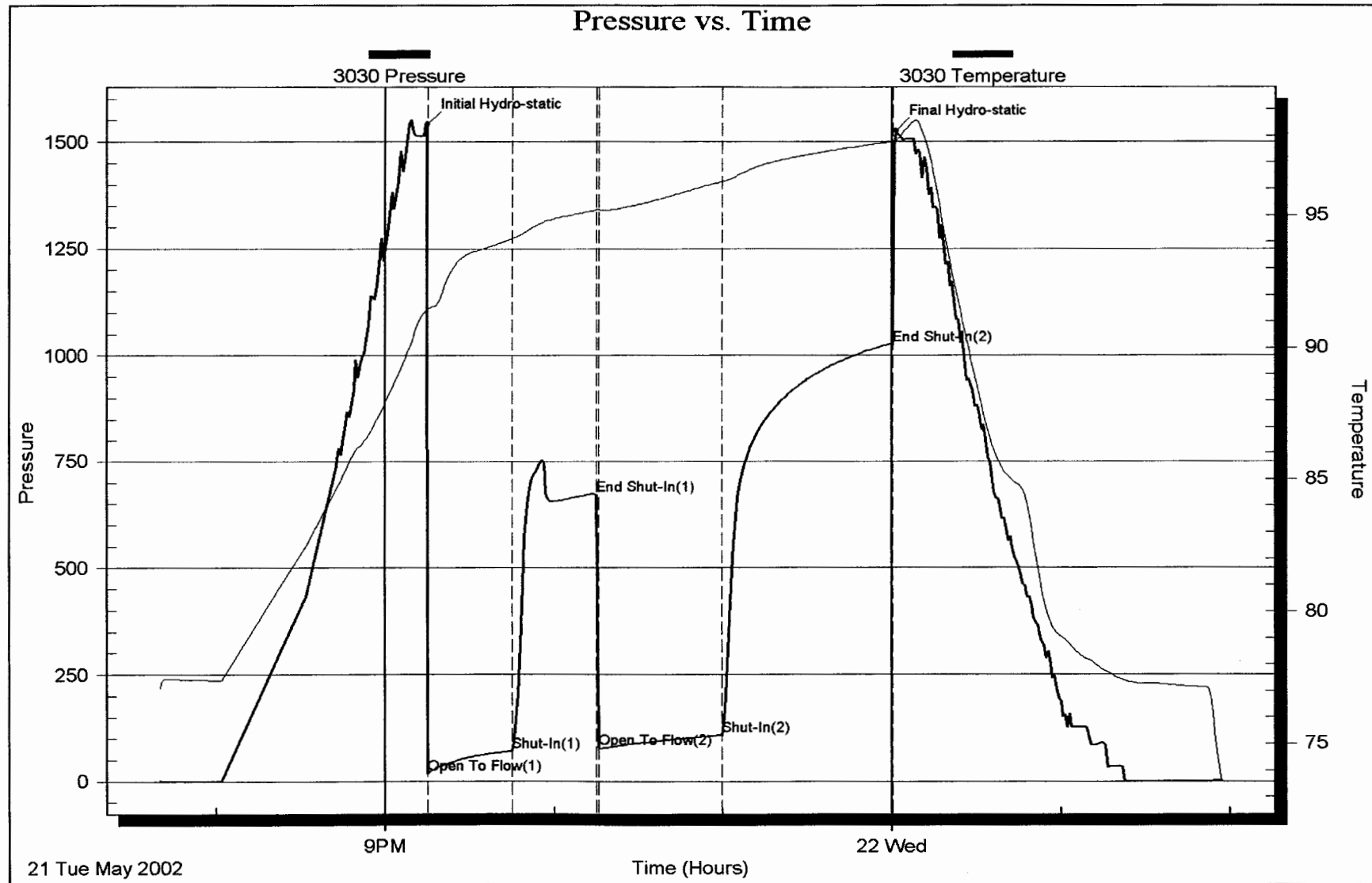
Total Length: 380.00 ft Total Volume: 4.407 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 3030

Inside Imperial American

sc26 tp11S rg 16w

DST Test Number: 6



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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Imperial American**

303 N Carroll Blvd #214
Denton TX 75201

ATTN: Hal Porter

sc26 tp11S rg 16w

Ella #26-1

Start Date: 2002.05.22 @ 11:08:54

End Date: 2002.05.22 @ 15:56:07

Job Ticket #: 15068 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Imperial American

Ella #26-1

sc26 tp11S rg 16w

DST # 7

Marm-Cg-Simp

2002.05.22


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Imperial American
303 N Carroll Blvd #214
Denton TX 75201
ATTN: Hal Porter

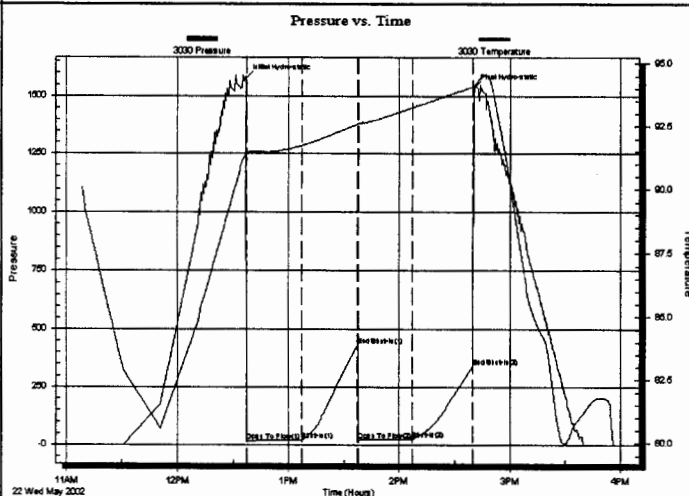
Ella #26-1
sc26 tp11S rg 16w
Job Ticket: 15068 **DST#:7**
Test Start: 2002.05.22 @ 11:08:54

GENERAL INFORMATION:

Formation: **Marm-Cg-Simp**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:37:22
Time Test Ended: 15:56:07
Interval: **3179.00 ft (KB) To 3260.00 ft (KB) (TVD)**
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Jack Fox
Unit No: 11
Reference Elevations: 1723.00 ft (KB)
1718.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3030 Inside
Press@RunDepth: 26.90 psig @ 3185.01 ft (KB)
Start Date: 2002.05.22 End Date: 2002.05.22
Start Time: 11:08:54 End Time: 15:56:07
Capacity: 7000.00 psig
Last Calib.: 2001.04.10
Time On Btm: 2002.05.22 @ 12:37:07
Time Off Btm: 2002.05.22 @ 14:40:07

TEST COMMENT: IF weak blow @surf Blow died in 9 min
FF no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1578.41	91.37	Initial Hydro-static
1	17.08	91.39	Open To Flow (1)
30	22.91	91.73	Shut-In(1)
61	429.38	92.60	End Shut-In(1)
61	23.51	92.62	Open To Flow (2)
90	26.90	93.25	Shut-In(2)
123	341.29	94.07	End Shut-In(2)
123	1537.19	94.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	oil specked mud	0.11

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

Ella #26-1

303 N Carroll Blvd #214
Denton TX 75201

sc26 tp11S rg 16w

Job Ticket: 15068

DST#: 7

ATTN: Hal Porter

Test Start: 2002.05.22 @ 11:08:54

Tool Information

Drill Pipe:	Length: 3021.00 ft	Diameter: 3.80 inches	Volume: 42.38 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: 30000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.80 inches	Volume: 1.10 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 43.48 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3179.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.02 ft			
Tool Length:	100.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

S.I. Tool	5.00			3164.00	
HYD S.I. Tool	5.00			3169.00	
Packer	5.00			3174.00	20.00 Bottom Of Top Packer
Packer	5.00			3179.00	
Stubb	1.00			3180.00	
Perforations	5.00			3185.00	
Recorder	0.01	3030	Inside	3185.01	
Blank Spacing	63.00			3248.01	
C.O. Sub	1.00			3249.01	
Perforations	5.00			3254.01	
Recorder	0.01	13371	Outside	3254.02	
Bullnose	5.00			3259.02	80.02 Bottom Packers & Anchor

Total Tool Length: 100.02

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	Imperial American 303 N Carroll Blvd #214 Denton TX 75201 ATTN: Hal Porter	Ella #26-1 sc26 tp11S rg 16w Job Ticket: 15068 DST#: 7 Test Start: 2002.05.22 @ 11:08:54	

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:	5600 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information		
Recovery Table		
Length ft	Description	Volume bbl
15.00	oil specked mud	0.114

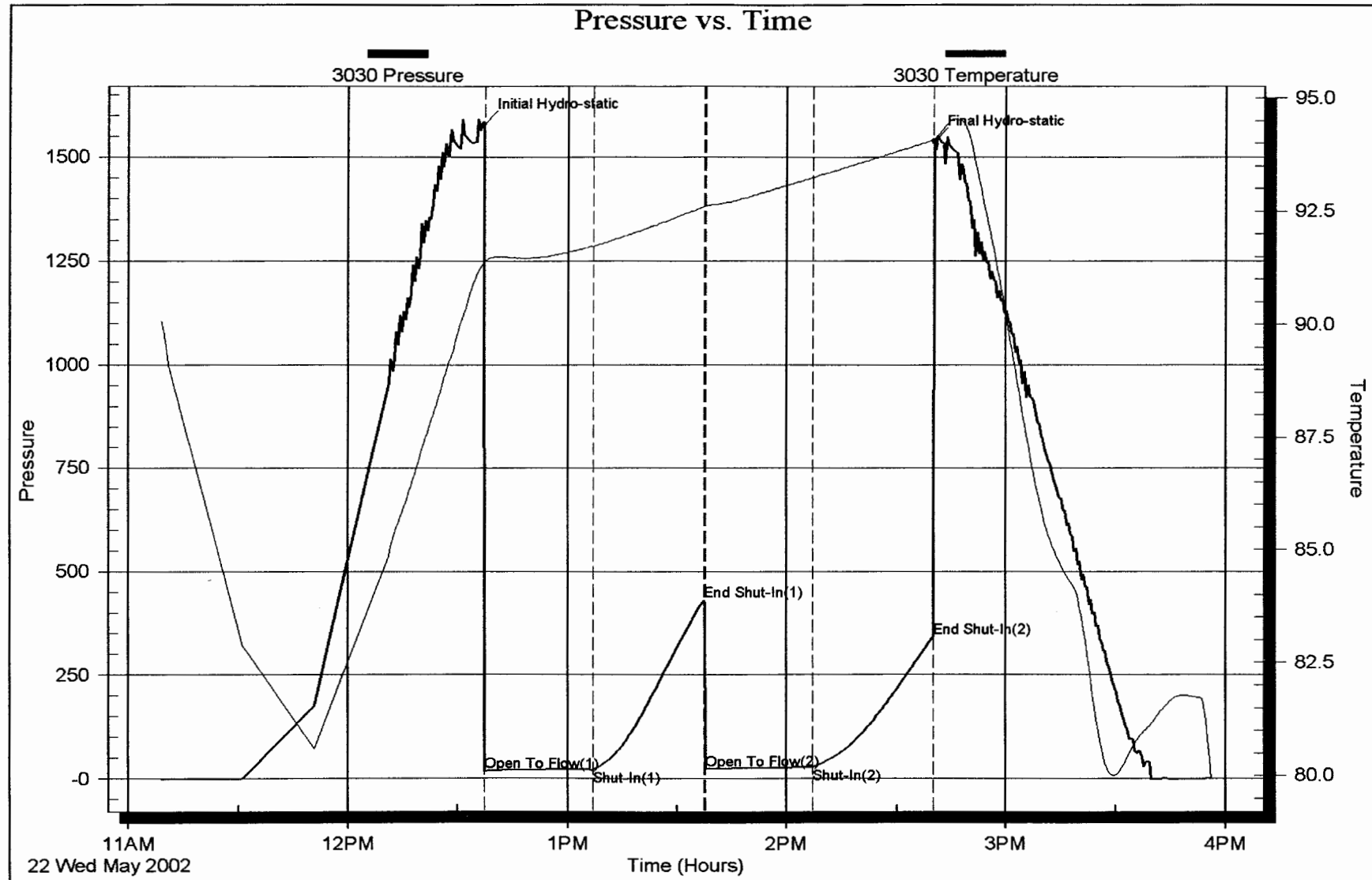
Total Length: 15.00 ft Total Volume: 0.114 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW 1 @ 76 degrees 5600 ppm

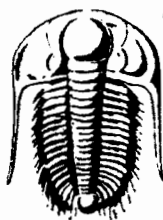
Serial #: 3030

Inside Imperial American

sc26 tp11S rg 16w

DST Test Number: 7





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15062

Test Ticket

Well Name & No. <u>ELLA #26-1</u>	Test No. <u>1</u>	Date <u>5-17-02</u>
Company <u>Imperial American</u>	Zone Tested <u>LKC A-D</u>	
Address <u>303 North Carroll Blvd #214 Dorton Tx 76201</u>	Elevation <u>17523 KB 17018 GL</u>	
Co. Rep / Geo. <u>Randy Kiltian</u>	Cont. <u>Steve Martin 16</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>26</u> Twp. <u>11S</u> Rge. <u>16</u> Co. <u>Ellis</u> State <u>Ks</u>		
No. of Copies <u> </u> Distribution Sheet (Y, N) <u> </u> Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>		

Interval Tested <u>2918 - 2995</u>	Initial Str Wt/Lbs. <u>18,000</u>	Unseated Str Wt/Lbs. <u>79,000</u>
Anchor Length <u>77</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>80,000</u>
Top Packer Depth <u>2913</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>2918</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>2995</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>144</u>
Mud Wt. <u>9.0</u> LCM <u> </u> Vis. <u>46</u> WL <u>7.2</u>	Drill Pipe Size <u>4.5 x H</u>	Ft. Run <u>2995</u>
Blow Description <u>BOB 4 min 30 SEC Strong Blow</u>		
<u>EF BOB in 3 min 45 SEC Strong Blow</u>		

Recovery — Total Feet <u>570</u>	GIP <u>743</u>	Ft. in DC <u> </u>	Ft. in DP <u> </u>
Rec. <u>30</u> Feet Of <u>OCM</u>	<u>10</u> %gas <u>20</u> %oil	%water <u>70</u> %mud	
Rec. <u>540</u> Feet Of <u>Gassy O.I</u>	<u>50</u> %gas <u>40</u> %oil	%water <u>10</u> %mud	
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u>	%water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u>	%water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u>	%water <u> </u> %mud <u> </u>	
BHT <u>97</u> °F Gravity <u>31</u> °API D@ <u>54</u> °F Corrected Gravity <u>31.5</u> °API			
RW <u> </u> @ <u> </u> °F Chlorides <u> </u> ppm Recovery Chlorides <u> </u> ppm System			

(A) Initial Hydrostatic Mud	AK-1 <u>1434</u> Alpine	PSI Recorder No. <u>3030</u>	T-On Location <u>20:00</u>
(B) First Initial Flow Pressure	<u>34</u> PSI	(depth) <u>2921</u>	T-Started <u>20:57</u> - 9:23
(C) First Final Flow Pressure	<u>157</u> PSI	Recorder No. <u>13371</u>	T-Open <u>12:40 5-18-02</u>
(D) Initial Shut-In Pressure	<u>461</u> PSI	(depth) <u>2994</u>	T-Pulled <u>3:25</u>
(E) Second Initial Flow Pressure	<u>163</u> PSI	Recorder No. <u> </u>	T-Out <u>5:23</u>
(F) Second Final Flow Pressure	<u>235</u> PSI	(depth) <u> </u>	T-Off Location <u>6:23</u>
(G) Final Shut-in Pressure	<u>461</u> PSI	Initial Opening <u>30</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud	<u>1412</u> PSI	Initial Shut-in <u>30</u>	Jars <u> </u>
		Final Flow <u>45</u>	Safety Joint <u> </u>
		Final Shut-in <u>60</u>	Straddle <u> </u>
			Circ. Sub <u> </u>
			Sampler <u> </u>
			Extra Packer <u> </u>
			Elec. Rec. <u>150</u>
			Mileage <u>X 28 1 way</u>
			Other <u>242 75</u>
			TOTAL PRICE \$ <u>953</u>

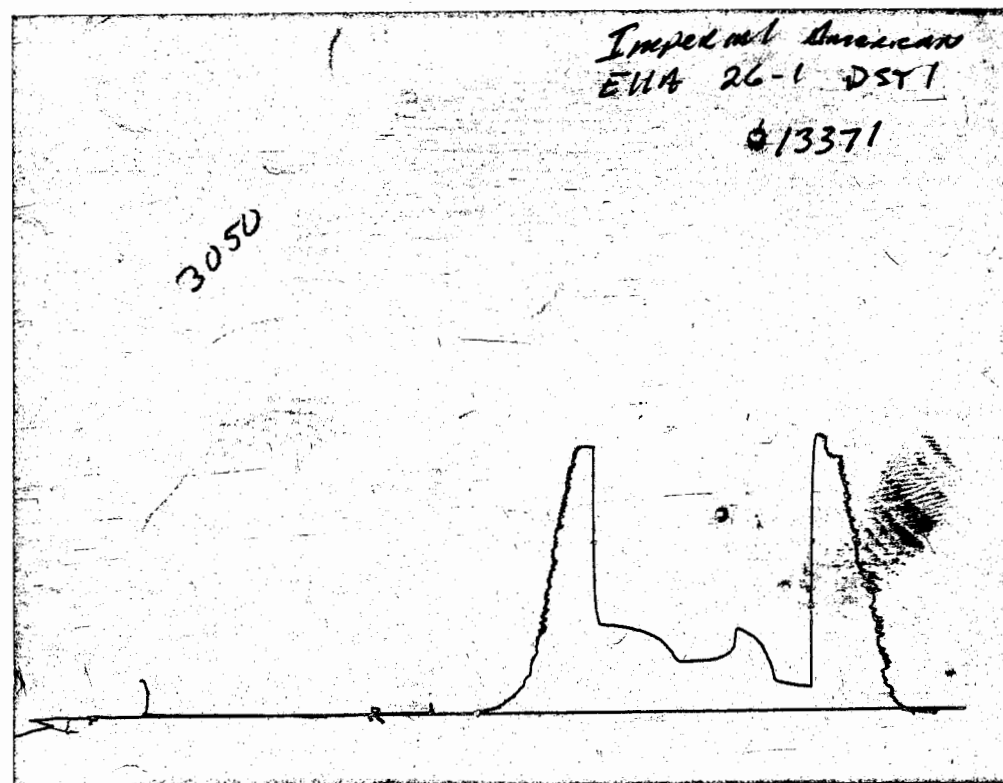
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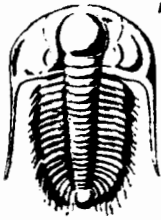
Approved By

Our Representative Thanks Ted Lick

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15063

Test Ticket

Well Name & No. <u>Ellis #26-1</u>	Test No. <u>2</u>	Date <u>5-18-02</u>
Company <u>Imperial American</u>	Zone Tested <u>LKC F</u>	
Address <u>303 N Carroll Blvd #214 Denton Tx 76201</u>	Elevation <u>1733</u> KB <u>1738</u> GL	
Co. Rep / Geo. <u>Randy Kellian</u>	Cont. <u>Murfin 16</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>26</u>	Twp. <u>11S</u>	Rge. <u>16</u> Co. <u>Ellis</u> State <u>KS</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>2993-3028</u>	Initial Str Wt./Lbs. <u>28,000</u>	Unseated Str Wt./Lbs. <u>70,000</u>
Anchor Length <u>35'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>80,000</u>
Top Packer Depth <u>2988</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>2993</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>3028</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>144</u>
Mud Wt. <u>9.1</u> LCM <u> </u> Vis. <u>48</u> WL <u>7.2</u>	Drill Pipe Size <u>4.5x14</u>	Ft. Run <u>2837</u>
Blow Description <u>IF BOB 4mm 10 Sec Strong Blow</u>		
<u>FF BOB 4mm 45 SEC Strong Blow</u>		

Recovery — Total Feet <u>410</u>	GIP <u>1227</u>	Ft. in DC <u> </u>	Ft. in DP <u> </u>
Rec. <u>50</u> Feet Of <u>MCO</u>	10% gas 30% oil	%water 60% mud	
Rec. <u>360</u> Feet Of <u>Gassy oil</u>	60% gas 30% oil	%water 10% mud	
Rec. <u> </u> Feet Of <u> </u>	%gas %oil	%water %mud	
Rec. <u> </u> Feet Of <u> </u>	%gas %oil	%water %mud	
Rec. <u> </u> Feet Of <u> </u>	%gas %oil	%water %mud	
BHT <u>98</u> °F Gravity <u>35</u>	°API D@ <u>70</u>	°F Corrected Gravity <u>34</u>	°API <u> </u>
RW <u> </u> @ <u> </u> °F	Chlorides <u> </u> ppm Recovery	Chlorides <u> </u> ppm System	

(A) Initial Hydrostatic Mud	AK-1 <u>1310</u>	Alpine <u>1310</u>	PSI Recorder No. <u>3030</u>	T-On Location <u>1300</u>
(B) First Initial Flow Pressure	<u>28</u>	PSI (depth) <u>2994</u>	T-Started <u>13:35</u>	
(C) First Final Flow Pressure	<u>114</u>	PSI Recorder No. <u>13371</u>	T-Open <u>14:35</u>	
(D) Initial Shut-In Pressure	<u>335</u>	PSI (depth) <u>3027</u>	T-Pulled <u>17:20</u>	
(E) Second Initial Flow Pressure	<u>119</u>	PSI Recorder No. <u> </u>	T-Out <u>19:13</u>	
(F) Second Final Flow Pressure	<u>166</u>	PSI (depth) <u> </u>	T-Off Location <u>19:50</u>	
(G) Final Shut-in Pressure	<u>335</u>	PSI Initial Opening <u>30</u>	Test <u>700</u>	
(Q) Final Hydrostatic Mud	<u>1423</u>	PSI Initial Shut-in <u>30</u>	Jars <u> </u>	
		Final Flow <u>45</u>	Safety Joint <u> </u>	
		Final Shut-in <u>60</u>	Straddle <u> </u>	
			Circ. Sub <u> </u>	
			Sampler <u> </u>	
			Extra Packer <u> </u>	
			Elec. Rec. <u>150</u>	
			Mileage <u>28 Hwy</u>	
			Other <u> </u>	
			TOTAL PRICE \$ <u>878</u>	

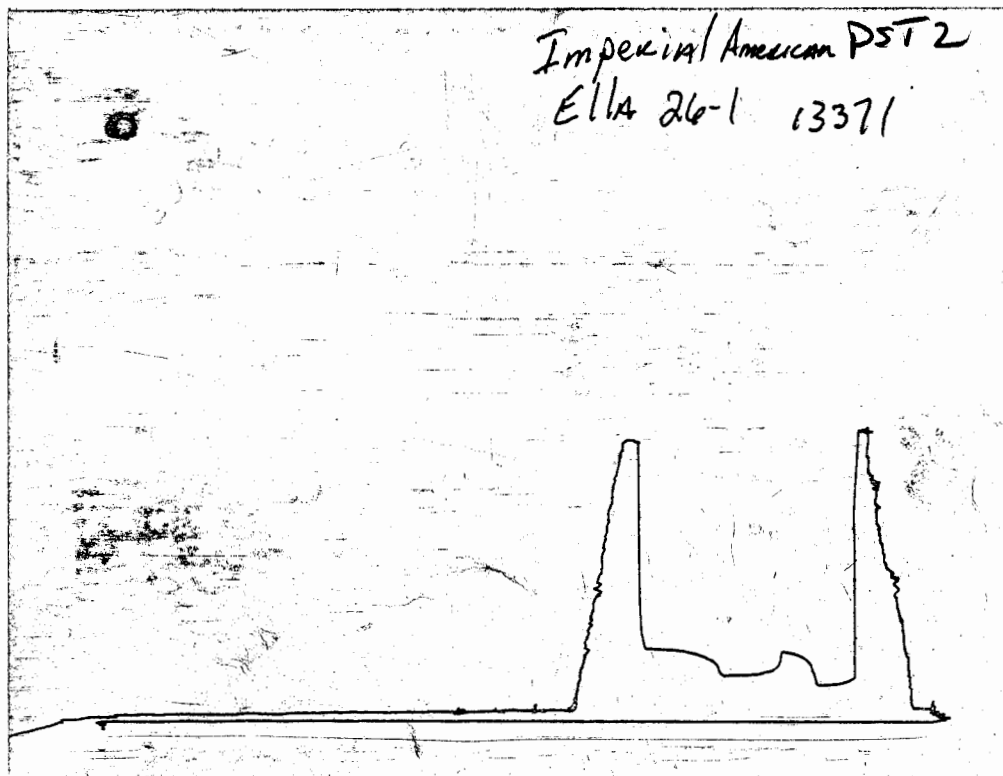
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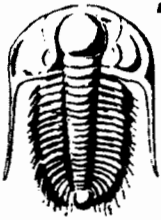
Approved By

Our Representative Thanks Jack In

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15064

Test Ticket

Well Name & No. <u>ELLA #26-1</u>	Test No. <u>3</u>	Date <u>5-19-02</u>
Company <u>Imperial American</u>	Zone Tested <u>LKC G</u>	
Address <u>303 North Carroll Blvd #214 Denton TX 76201</u>	Elevation <u>1755</u> KB <u>1750</u> GL <u>18</u>	
Co. Rep / Geo. <u>Randy K. Lian</u>	Cont. <u>MURFIN KG</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>26</u> Twp. <u>11S</u> Rge. <u>16</u> Co. <u>ELLIS</u> State <u>KS</u>		
No. of Copies <u> </u> Distribution Sheet (Y, N) <u> </u> Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>		

Interval Tested <u>3028 - 3050</u>	Initial Str Wt./Lbs. <u>6800</u>	Unseated Str Wt./Lbs. <u>6900</u>
Anchor Length <u>22</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>80,000</u>
Top Packer Depth <u>3023</u>	Tool Weight <u>1500</u>	
Bottom Packer Depth <u>3028</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>3050</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>144</u>
Mud Wt. <u>9</u> LCM <u> </u> Vis. <u>48</u> WL <u>2.2</u>	Drill Pipe Size <u>4.5x4</u>	Ft. Run <u>2896</u>
Blow Description <u>IF BOB 6min 30 sec Strong Blow</u> <u>FF BOB 5min 10 sec Strong Blow</u>		

Recovery — Total Feet <u>270</u>	GIP <u>450</u>	Ft. in DC <u>150</u>	Ft. in DP <u>120</u>
Rec. <u>270</u> Feet Of <u>Gassy oil</u>	<u>20</u> %gas <u>80</u> %oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water
BHT <u>95</u> °F Gravity <u>22</u> °API D@ <u>60</u> °F Corrected Gravity <u>22</u> °API			
RW <u> </u> @ <u> </u> °F Chlorides <u> </u> ppm Recovery Chlorides <u> </u> ppm System			

(A) Initial Hydrostatic Mud	AK-1 <u>1488</u>	Alpine	PSI Recorder No. <u>3030</u>	T-On Location <u>1:45</u>
(B) First Initial Flow Pressure	<u>14</u>	PSI	(depth) <u>3029</u>	T-Started <u>2:15</u>
(C) First Final Flow Pressure	<u>50</u>	PSI	Recorder No. <u>13271</u>	T-Open <u>3:40</u>
(D) Initial Shut-In Pressure	<u>390</u>	PSI	(depth) <u>3049</u>	T-Pulled <u>6:25</u>
(E) Second Initial Flow Pressure	<u>57</u>	PSI	Recorder No. <u> </u>	T-Out <u>8:30</u>
(F) Second Final Flow Pressure	<u>81</u>	PSI	(depth) <u> </u>	T-Off Location <u>9:00</u>
(G) Final Shut-in Pressure	<u>379</u>	PSI	Initial Opening <u>30</u>	Test <u>7:00</u>
(Q) Final Hydrostatic Mud	<u>1442</u>	PSI	Initial Shut-in <u>30</u>	Jars <u> </u>
			Final Flow <u>45</u>	Safety Joint <u> </u>
			Final Shut-in <u>60</u>	Straddle <u> </u>
				Circ. Sub <u> </u>
				Sampler <u> </u>
				Extra Packer <u> </u>
				Elec. Rec. <u>150</u>
				Mileage <u>28 lwy</u>
				Other <u> </u>
				TOTAL PRICE \$ <u>878</u>

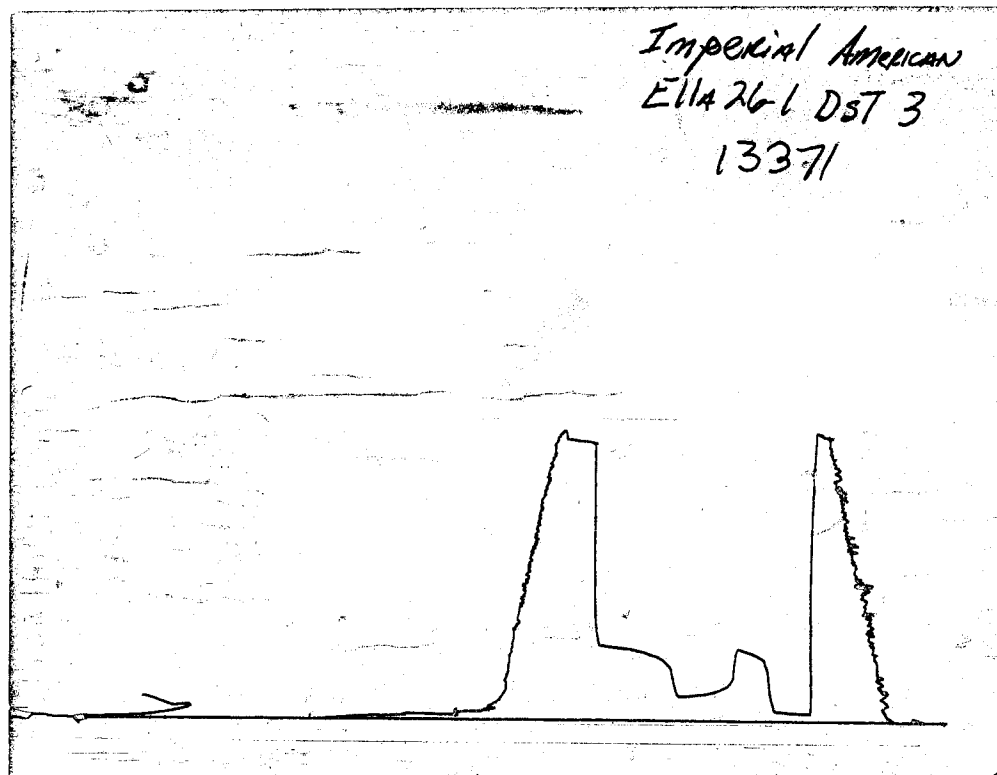
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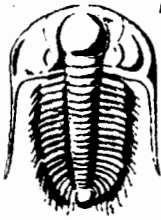
Approved By

Our Representative Thanks Jacko L. L.

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15065

Test Ticket

Well Name & No. <u>E11A #26-1</u>	Test No. <u>4</u>	Date <u>5-20-02</u>
Company <u>Imperial American</u>	Zone Tested <u>LKC H-1</u>	
Address <u>303 N Carroll Blvd #24 Denton Tx</u>	Elevation <u>1723</u> KB <u>1718</u> GL	
Co. Rep / Geo. <u>Randy Killian</u>	Cont. <u>Murphy 16</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>26</u>	Twp. <u>11S</u>	Rge. <u>16</u> Co. <u>E11.5</u> State <u>KS</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>~~3053-3103~~ 3053-3103</u>	Initial Str Wt./Lbs. <u>68,000</u>	Unseated Str Wt./Lbs. <u> </u>
Anchor Length <u>50</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u> </u>
Top Packer Depth <u>3098</u>	Tool Weight <u>2600</u>	
Bottom Packer Depth <u>~~3053~~ 3053</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>~~3053~~ 3053</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>144</u>
Mud Wt. <u>9.2</u> LCM <u> </u> Vis. <u>67</u> WL <u>7.2</u>	Drill Pipe Size <u>4.5 FH</u>	Ft. Run <u>2896</u>
Blow Description <u>IF weak Blow @ 500ft Bbl died in 5min</u>		
FF No <u>blow</u>		

Recovery — Total Feet <u>5'</u>	GIP <u> </u>	Ft. in DC <u>5'</u>	Ft. in DP <u> </u>
Rec. <u>5'</u>	Feet Of <u>oil specked mud</u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
BHT <u> </u>	°F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>
RW <u> </u>	@ <u> </u>	°F Chlorides <u> </u>	ppm Recovery Chlorides <u> </u>

(A) Initial Hydrostatic Mud	AK-1 <u>1491</u>	Alpine <u>1491</u>	PSI Recorder No. <u>3030</u>	T-On Location <u>15:15</u>
(B) First Initial Flow Pressure	<u>11</u>	<u>11</u>	PSI (depth) <u>3056</u>	T-Started <u>15:44</u>
(C) First Final Flow Pressure	<u>16</u>	<u>16</u>	PSI Recorder No. <u>13371</u>	T-Open <u>17:11</u>
(D) Initial Shut-In Pressure	<u>22</u>	<u>22</u>	PSI (depth) <u>3102</u>	T-Pulled <u>19:11</u>
(E) Second Initial Flow Pressure	<u>17</u>	<u>17</u>	PSI Recorder No. <u> </u>	T-Out <u>20:36</u>
(F) Second Final Flow Pressure	<u>19</u>	<u>19</u>	PSI (depth) <u> </u>	T-Off Location <u>21:40</u>
(G) Final Shut-in Pressure	<u>38</u>	<u>38</u>	PSI Initial Opening <u>30</u>	Test <u>X</u> <u>700</u>
(Q) Final Hydrostatic Mud	<u>1466</u>	<u>1466</u>	PSI Initial Shut-in <u>30</u>	Jars <u> </u>
			Final Flow <u>30</u>	Safety Joint <u> </u>
			Final Shut-in <u>30</u>	Straddle <u> </u>

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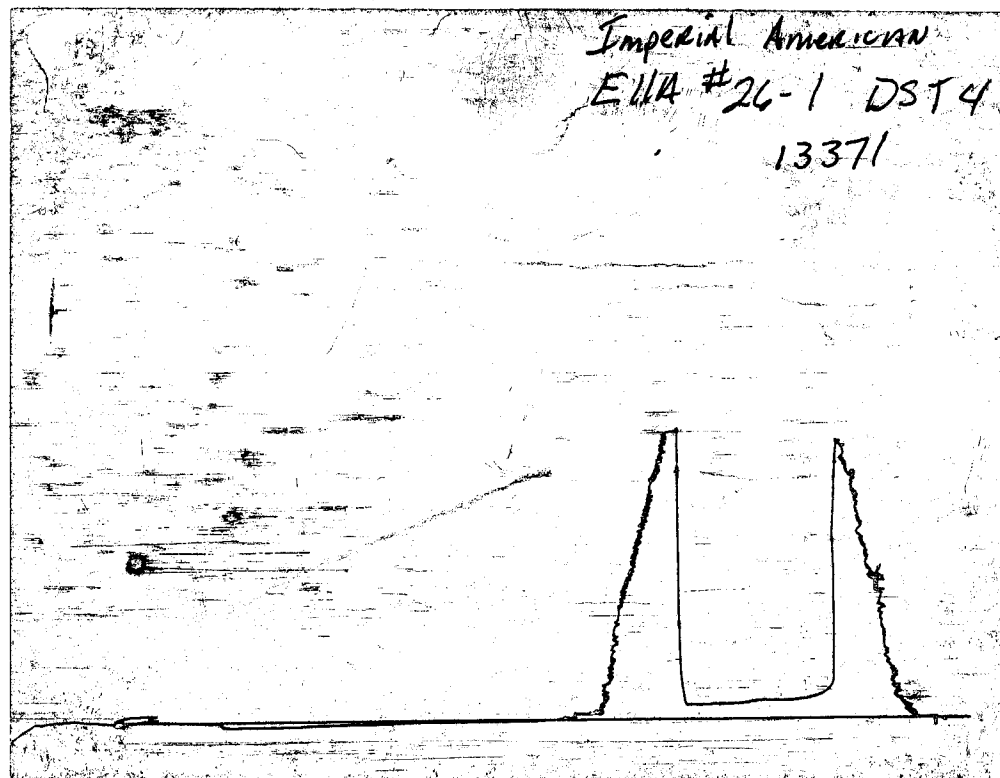
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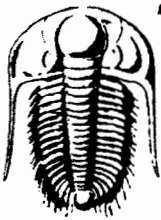
Our Representative Thanks Jack Jr.

Extra Packer
Elec. Rec X 150
Mileage X 281 way
Other
TOTAL PRICE \$ 878

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15066

Test Ticket

Well Name & No. <u>ELLA #24-1</u>	Test No. <u>5</u>	Date <u>5-21</u>
Company <u>Imperial American</u>	Zone Tested <u>LKC J</u>	
Address <u>303 N CARROLL Blvd #214 DENVER TX</u>	Elevation <u>1723</u> KB <u>1718</u> GL	
Co. Rep / Geo. <u>Randy K. Llanos</u>	Cont. <u>Martin 16</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>26</u> Twp. <u>11S</u> Rge. <u>16</u>	Co. <u>EL</u> State <u>KS</u>	
No. of Copies <u> </u> Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>3100 - 3128</u>	Initial Str Wt./Lbs. <u>69,400</u>	Unseated Str Wt./Lbs. <u>69,400</u>
Anchor Length <u>28</u>	Wt. Set Lbs. <u>30,400</u>	Wt. Pulled Loose/Lbs. <u>80,400</u>
Top Packer Depth <u>3095</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>3100</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>3128</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>144</u>
Mud Wt. <u>9.2</u> LCM <u> </u> Vis. <u>57</u> WL <u>7.2</u>	Drill Pipe Size <u>4.5 x H</u>	Ft. Run <u>2958</u>
Blow Description <u>IF WEAK Blow @ surf Blow died in GUN</u>		
<u>FF No Blow</u>		

Recovery — Total Feet <u>2'</u>	GIP <u> </u>	Ft. in DC <u>2'</u>	Ft. in DP <u> </u>
Rec. <u>2</u> Feet Of <u>oil specked mud</u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
BHT <u> </u> °F Gravity <u> </u>	°API D @ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u> </u> @ <u> </u> °F	Chlorides <u> </u> ppm Recovery	Chlorides <u> </u> ppm System	

(A) Initial Hydrostatic Mud	AK-1 <u>1512</u>	Alpine <u>1512</u> PSI	Recorder No. <u>3303</u>	T-On Location <u>5:45</u>
(B) First Initial Flow Pressure	<u>12</u>	PSI	(depth) <u>3104</u>	T-Started <u>6:14</u>
(C) First Final Flow Pressure	<u>15</u>	PSI	Recorder No. <u>13371</u>	T-Open <u>8:10</u>
(D) Initial Shut-In Pressure	<u>121</u>	PSI	(depth) <u>3128</u>	T-Pulled <u>10:10</u>
(E) Second Initial Flow Pressure	<u>17</u>	PSI	Recorder No. <u> </u>	T-Out <u>11:27</u>
(F) Second Final Flow Pressure	<u>21</u>	PSI	(depth) <u> </u>	T-Off Location <u>12:00</u>
(G) Final Shut-in Pressure	<u>41</u>	PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>700</u>
(Q) Final Hydrostatic Mud	<u>1490</u>	PSI	Initial Shut-in <u>30</u>	Jars <u> </u>
			Final Flow <u>30</u>	Safety Joint <u> </u>
			Final Shut-in <u>30</u>	Straddle <u> </u>
				Circ. Sub <u> </u>
				Sampler <u> </u>
				Extra Packer <u> </u>
				Elec. Rec. <u>X</u> <u>150</u>
				Mileage <u>X</u> <u>28</u>
				Other <u> </u>
				TOTAL PRICE \$ <u>878</u>

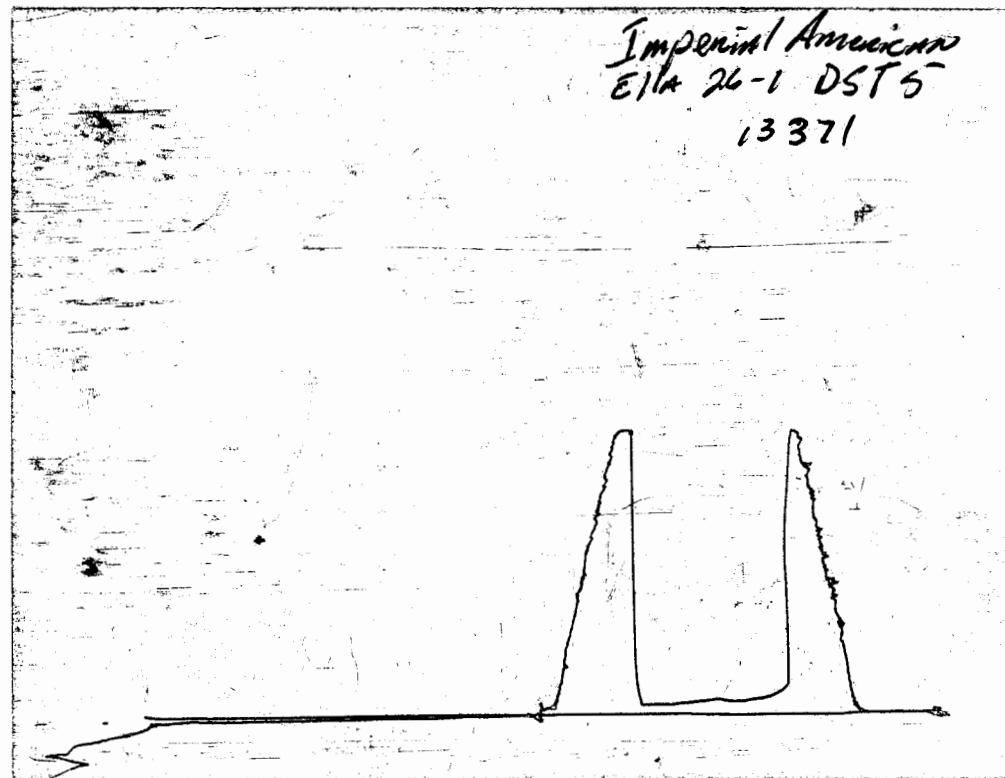
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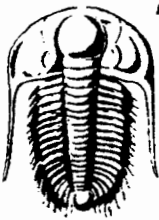
Approved By

Our Representative Thanks Jack O. Llanos

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15067

Test Ticket

Well Name & No. <u>ELLA #26-1</u>	Test No. <u>6</u>	Date <u>5-21-02</u>
Company <u>Imperial American</u>	Zone Tested <u>LKC K-L</u>	
Address <u>303 N Carroll Blvd #214 Denton TX 76201</u>	Elevation <u>1723</u> KB <u>1718</u> GL	
Co. Rep / Geo. <u>Randy K. Hines</u>	Cont. <u>Murfin 16</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>26</u> Twp. <u>11S</u> Rge. <u>16</u> Co. <u>EL</u> State <u>KS</u>		
No. of Copies <u> </u> Distribution Sheet (Y, N) <u> </u> Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>		

Interval Tested <u>3125 - 3184</u>	Initial Str Wt./Lbs. <u>68,000</u>	Unseated Str Wt./Lbs. <u>68,000</u>
Anchor Length <u>59</u>	Wt. Set Lbs. <u>39,000</u>	Wt. Pulled Loose/Lbs. <u>80,000</u>
Top Packer Depth <u>3120</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>3125</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>3184</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>144</u>
Mud Wt. <u>9.2</u> LCM <u> </u> Vis. <u>45</u> WL <u>8</u>	Drill Pipe Size <u>4.5 x 4</u>	Ft. Run <u>2980</u>
Blow Description <u>IF WEAK Blow @ surf building to BOB in 16 min</u> <u>EF WEAK Blow @ surf building to BOB in 12 min</u>		

Recovery — Total Feet <u>255</u>	GIP <u>125</u>	Ft. in DC <u>144</u>	Ft. in DP <u>111</u>
Rec. <u>255</u> Feet Of <u>Gassy oil</u>	<u>20</u> %gas <u>60</u> %oil	<u> </u> %water <u>20</u> %mud	
Rec. <u> </u> Feet Of <u> </u>	<u> </u> %gas <u> </u> %oil	<u> </u> %water <u> </u> %mud	
Rec. <u> </u> Feet Of <u> </u>	<u> </u> %gas <u> </u> %oil	<u> </u> %water <u> </u> %mud	
Rec. <u> </u> Feet Of <u> </u>	<u> </u> %gas <u> </u> %oil	<u> </u> %water <u> </u> %mud	
Rec. <u> </u> Feet Of <u> </u>	<u> </u> %gas <u> </u> %oil	<u> </u> %water <u> </u> %mud	
BHT <u>97</u> °F Gravity <u>32</u> °API D@ <u>20</u> °F Corrected Gravity <u>31</u> °API			
RW <u> </u> @ <u> </u> °F Chlorides <u> </u> ppm Recovery Chlorides <u> </u> ppm System			

(A) Initial Hydrostatic Mud <u>1539</u> PSI	Recorder No. <u>3030</u>	T-On Location <u>19:15</u>
(B) First Initial Flow Pressure <u>17</u> PSI	(depth) <u>3125</u>	T-Started <u>19:38</u>
(C) First Final Flow Pressure <u>70</u> PSI	Recorder No. <u>3034 13371</u>	T-Open <u>21:13</u>
(D) Initial Shut-In Pressure <u>671</u> PSI	(depth) <u>3183</u>	T-Pulled <u>23:08</u>
(E) Second Initial Flow Pressure <u>78</u> PSI	Recorder No. <u> </u>	T-Out <u>11:57</u>
(F) Second Final Flow Pressure <u>108</u> PSI	(depth) <u> </u>	T-Off Location <u>2:30</u>
(G) Final Shut-in Pressure <u>1028</u> PSI	Initial Opening <u>30</u>	Test # <u>700</u>
(Q) Final Hydrostatic Mud <u>1525</u> PSI	Initial Shut-in <u>30</u>	Jars <u> </u>
	Final Flow <u>45</u>	Safety Joint <u> </u>
	Final Shut-in <u>60</u>	Straddle <u> </u>
		Circ. Sub <u> </u>
		Sampler <u> </u>
		Extra Packer <u> </u>
		Elec. Rec. <u>150</u>
		Mileage <u>28</u>
		Other <u> </u>
		TOTAL PRICE \$ <u>878</u>

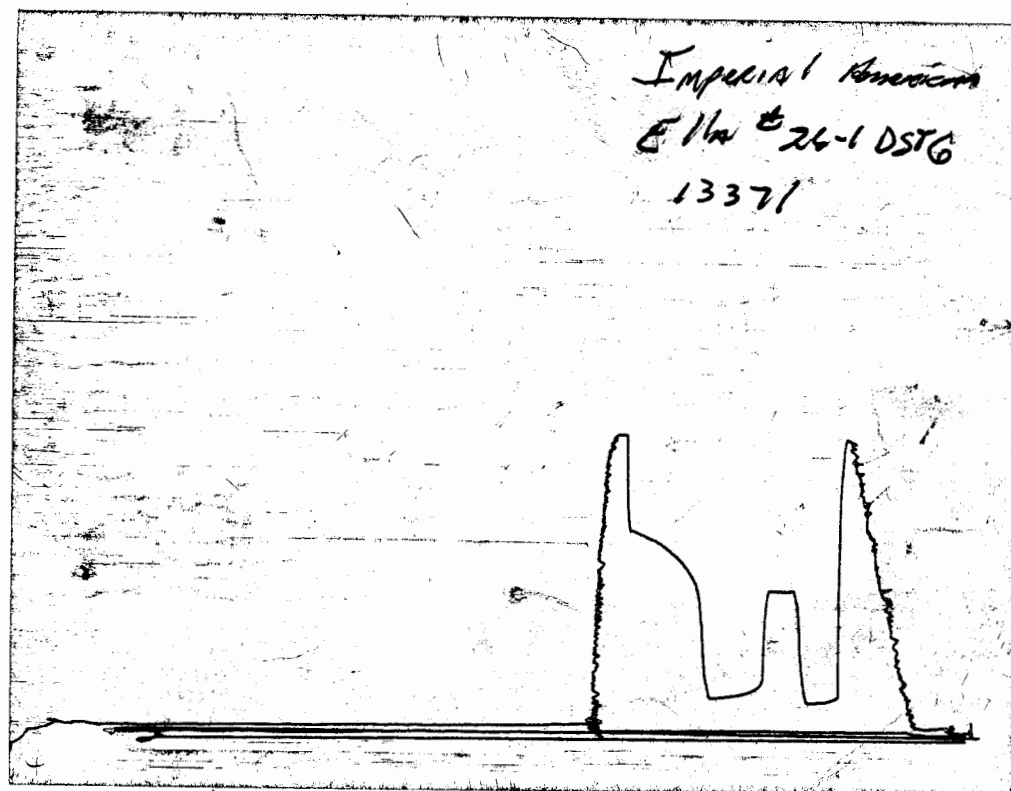
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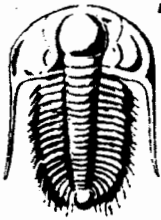
Approved By

Our Representative Thanks Jack L

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15068

Test Ticket

Well Name & No. <u>Elia #26-1</u>	Test No. <u>7</u>	Date <u>5-22-62</u>
Company <u>Imperial American</u>	Zone Tested <u>MAAM - Cg - Simp</u>	
Address <u>303 N Carroll Blvd #214 Denton Tx 76201</u>	Elevation <u>1723</u>	KB <u>1718</u> GL
Co. Rep / Geo. <u>Randy K. Llan</u>	Cont. <u>Murkin 16</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>26</u>	Twp. <u>115</u>	Rge. <u>16</u> Co. <u>EL</u> State <u>Ks</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>3179 - 3240</u>	Initial Str Wt./Lbs. <u>6200</u>	Unseated Str Wt./Lbs. <u>6200</u>
Anchor Length <u>81'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>80,000</u>
Top Packer Depth <u>3174</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>3179</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>3240</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>144</u>
Mud Wt. <u>9.3</u> LCM <u> </u> Vis. <u>50</u> WL <u>7.2</u>	Drill Pipe Size <u>4.5 x H</u>	Ft. Run <u>3021</u>
Blow Description <u>IF weak blow @ surf</u>	<u>Blow Died in 9 min</u>	
<u>FF No Blow</u>		

Recovery — Total Feet <u>15'</u>	GIP <u> </u>	Ft. in DC <u>15'</u>	Ft. in DP <u> </u>
Rec. <u>15'</u>	Feet Of <u>oil specked mud</u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
BHT <u> </u>	°F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>
RW <u>1</u>	@ <u>74</u> °F	Chlorides <u>5600</u> ppm	Recovery Chlorides <u> </u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1578</u>	Alpine <u>1578</u>	PSI Recorder No. <u>200 3030</u>	T-On Location <u>10:30</u>
(B) First Initial Flow Pressure	<u>17</u>	PSI (depth) <u>3186</u>	T-Started <u>11:07</u>	
(C) First Final Flow Pressure	<u>22</u>	PSI Recorder No. <u>13371</u>	T-Open <u>12:35</u>	
(D) Initial Shut-In Pressure	<u>429</u>	PSI (depth) <u>3259</u>	T-Pulled <u>14:35</u>	
(E) Second Initial Flow Pressure	<u>23</u>	PSI Recorder No. <u> </u>	T-Out <u>15:55</u>	
(F) Second Final Flow Pressure	<u>26</u>	PSI (depth) <u> </u>	T-Off Location <u>16:30</u>	
(G) Final Shut-in Pressure	<u>341</u>	PSI Initial Opening <u>30</u>	Test <u>X</u> <u>700</u>	
(Q) Final Hydrostatic Mud	<u>1537</u>	PSI Initial Shut-in <u>30</u>	Jars <u> </u>	
		Final Flow <u>30</u>	Safety Joint <u> </u>	
		Final Shut-in <u>30</u>	Straddle <u> </u>	
			Circ. Sub <u> </u>	
			Sampler <u> </u>	
			Extra Packer <u> </u>	
			Elec. Rec. <u>X</u> <u>150</u>	
			Mileage <u>X</u> <u>28</u>	
			Other <u> </u>	
			TOTAL PRICE \$ <u>878</u>	

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Approved By

Our Representative Thank You, Inc.

CHART PAGE

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