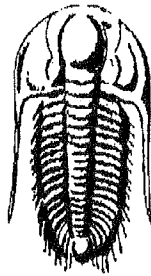


15-135-24919

31-20s-24w

IND



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum**

CONFIDENTIAL

AUG 19 2009

225 N. Market
Suite 300
Wichita, Ks 67202

ATTN: **KCC** Flip Phillips

31-20s-24w Ness KS

Nuss "JJ" #1-31

Start Date: 2009.06.24 @ 01:50:24

End Date: 2009.06.24 @ 08:16:09

Job Ticket #: 36333 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pintail Petroleum

225 N Market
Suite 300
Wichita, Ks 67202
ATTN: Flip Phillips

Nuss "JJ" #1-31

31-20s-24w Ness KS

Job Ticket: 36333

DST#: 1

Test Start: 2009.06.24 @ 01:50:24

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:55:54

Time Test Ended: 08:16:09

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: 4370.00 ft (KB) To 4480.00 ft (KB) (TVD)

Total Depth: 4480.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2374.00 ft (KB)

2369.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 59.04 psig @ 4380.00 ft (KB)

Start Date: 2009.06.24

End Date:

2009.06.24

Start Time: 01:50:29

End Time:

08:16:08

Capacity: 7000.00 psig

Last Calib.: 2009.06.24

Time On Btm: 2009.06.24 @ 03:55:24

Time Off Btm: 2009.06.24 @ 05:56:24

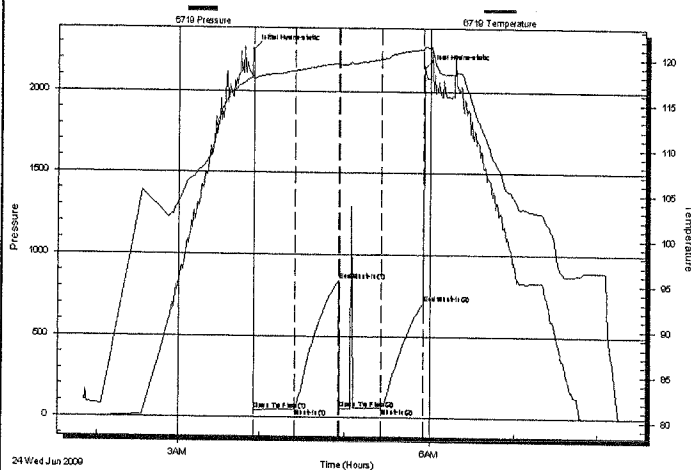
TEST COMMENT: IFP-Weak surface blow built to 1"

ISI-no blow back

FFP-Weak surface blow-flushed tool-w weak surface blow throughout

FSI-no blow back

Pressure vs. Time



PRESSURE SUMMARY

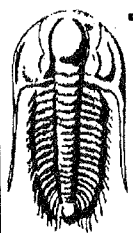
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2255.81	118.14	Initial Hydro-static
1	42.34	117.81	Open To Flow (1)
30	55.63	118.60	Shut-In (1)
61	839.11	119.47	End Shut-In (1)
62	52.84	119.29	Open To Flow (2)
91	59.04	119.95	Shut-In (2)
120	707.32	121.03	End Shut-In (2)
121	2148.07	121.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud w/ scum of oil	0.32

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Petroleum

Nuss "JJ" #1-31

225 N Market
Suite 300
Wichita, Ks 67202
ATTN: Flip Phillips

31-20s-24w Ness KS

Job Ticket: 36333

DST#: 1

Test Start: 2009.06.24 @ 01:50:24

Tool Information

Drill Pipe:	Length: 4111.00 ft	Diameter: 3.82 inches	Volume: 58.28 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	59.48 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4370.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	110.00 ft				
Tool Length:	131.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			4350.00	
Shut In Tool	5.00			4355.00	
Hydraulic tool	5.00			4360.00	
Packer	5.00			4365.00	21.00 Bottom Of Top Packer
Packer	5.00			4370.00	
Stubb	1.00			4371.00	
Perforations	8.00			4379.00	
Change Over Sub	1.00			4380.00	
Recorder	0.00	6719	Inside	4380.00	
Recorder	0.00	6669	Inside	4380.00	
Blank Spacing	94.00			4474.00	
Change Over Sub	1.00			4475.00	
Perforations	2.00			4477.00	
Bullnose	3.00			4480.00	110.00 Bottom Packers & Anchor

Total Tool Length: 131.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum

Nuss "JJ" #1-31

225 N Market
Suite 300
Wichita, Ks 67202
ATTN: Flip Phillips

31-20s-24w Ness KS

Job Ticket: 36333

DST#: 1

Test Start: 2009.06.24 @ 01:50:24

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: lb/gal

Viscosity: sec/qt

Water Loss: in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud w / scum of oil	0.320

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

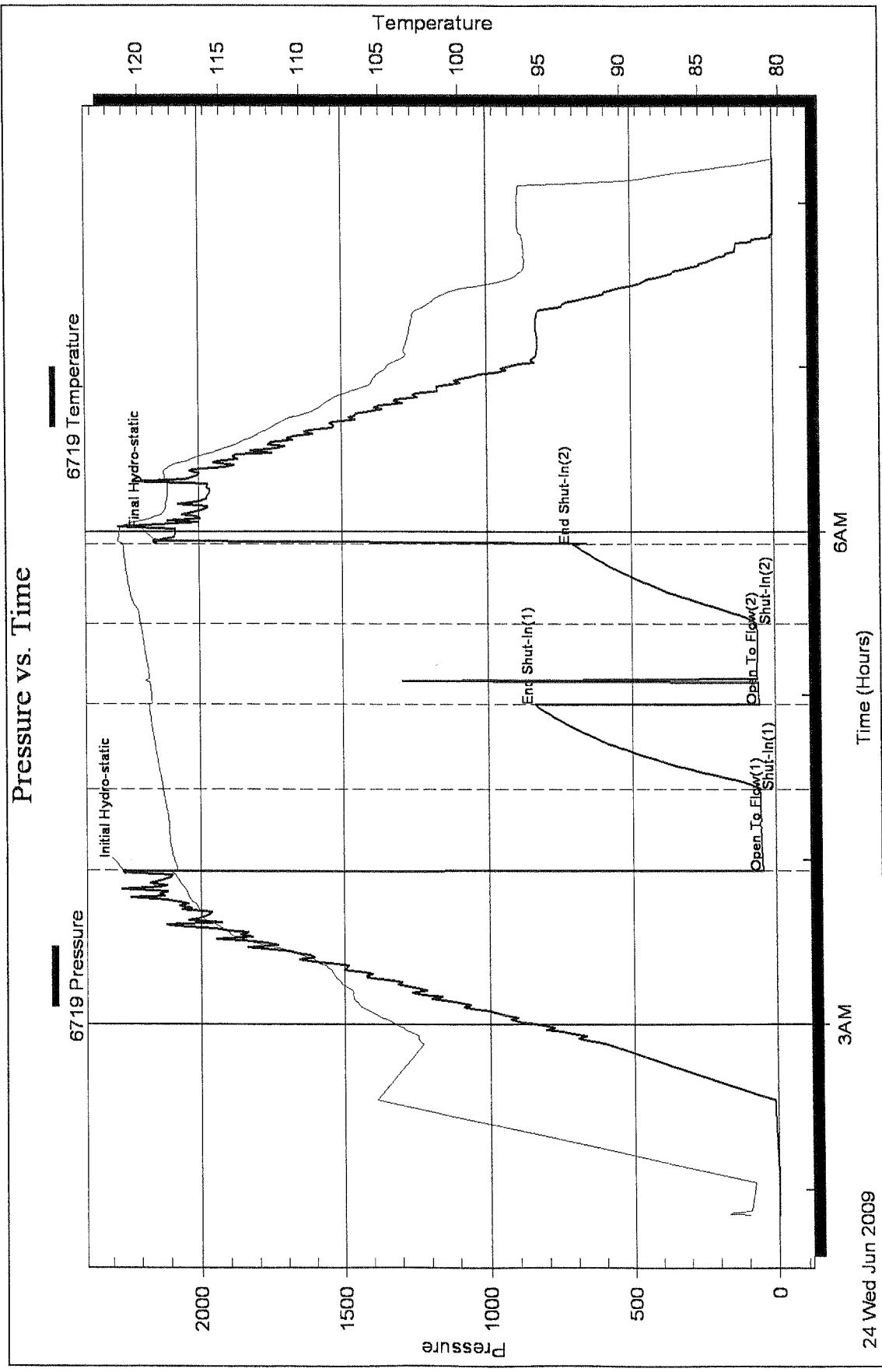
Num Gas Bombs: 0

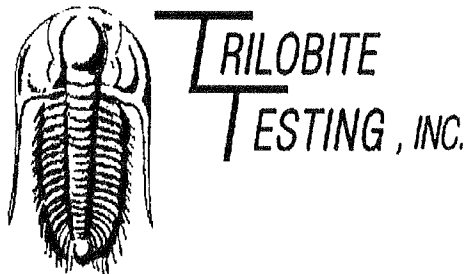
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum**

225 N Market
Suite 300
Wichita, Ks 67202

ATTN: Flip Phillips

31-20s-24w Ness KS

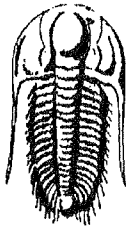
Nuss "JJ" #1-31

Start Date: 2009.06.24 @ 14:35:03

End Date: 2009.06.24 @ 20:00:03

Job Ticket #: 36334 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Pintail Petroleum

225 N Market
Suite 300
Wichita, Ks 67202
ATTN: Flip Phillips

Nuss "JJ" #1-31

31-20s-24w Ness KS

Job Ticket: 36334

DST#: 2

Test Start: 2009.06.24 @ 14:35:03

GENERAL INFORMATION:

Formation: Miss

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:39:48

Time Test Ended: 20:00:03

Interval: 4474.00 ft (KB) To 4488.00 ft (KB) (TVD)

Total Depth: 4488.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Reference Elevations: 2374.00 ft (KB)

2369.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 35.96 psig @ 4475.00 ft (KB)

Start Date: 2009.06.24

End Date: 2009.06.24

Start Time: 14:36:28

End Time: 20:00:03

Capacity: 7000.00 psig

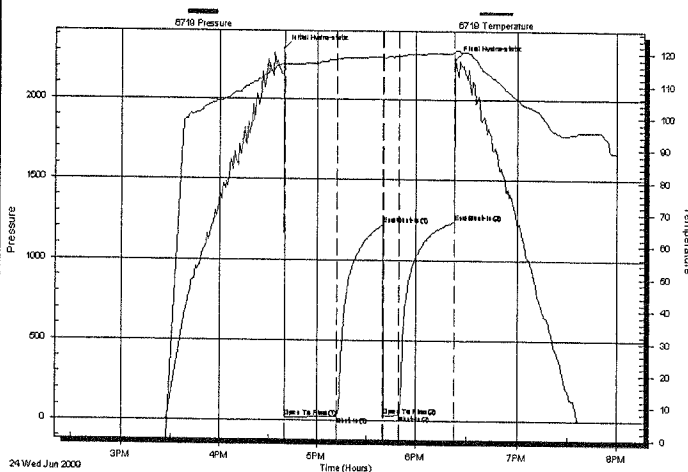
Last Calib.: 2009.06.24

Time On Btm: 2009.06.24 @ 16:39:33

Time Off Btm: 2009.06.24 @ 18:23:33

TEST COMMENT: IFP-Weak surface blow throughout
ISI-no blow back
FFP-Weak surface blow-flushed tool-w eak surface blow
FSI-no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2313.39	116.49	Initial Hydro-static
1	18.50	115.83	Open To Flow (1)
33	28.33	118.07	Shut-In (1)
61	1219.81	118.88	End Shut-In (1)
61	31.00	118.36	Open To Flow (2)
71	35.96	119.22	Shut-In (2)
104	1239.39	120.20	End Shut-In (2)
104	2250.54	120.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud	0.17

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Petroleum

225 N Market
Suite 300
Wichita, Ks 67202
ATTN: Flip Phillips

Nuss "JJ" #1-31

31-20s-24w Ness KS

Job Ticket: 36334

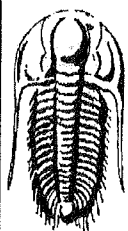
DST#: 2

Test Start: 2009.06.24 @ 14:35:03

Tool Information

Drill Pipe:	Length: 4235.00 ft	Diameter: 3.82 inches	Volume: 60.03 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	61.23 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4474.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4454.00	
Shut In Tool	5.00			4459.00	
Hydraulic tool	5.00			4464.00	
Packer	5.00			4469.00	21.00 Bottom Of Top Packer
Packer	5.00			4474.00	
Stubb	1.00			4475.00	
Recorder	0.00	6669	Inside	4475.00	
Recorder	0.00	6719	Inside	4475.00	
Perforations	10.00			4485.00	
Bullnose	3.00			4488.00	14.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum

Nuss "JJ" #1-31

225 N Market
Suite 300
Wichita, Ks 67202
ATTN: Flip Phillips

31-20s-24w Ness KS

Job Ticket: 36334

DST#: 2

Test Start: 2009.06.24 @ 14:35:03

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 48.00 lb/gal

Viscosity: 9.40 sec/qt

Water Loss: in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	Mud	0.172

Total Length: 35.00 ft

Total Volume: 0.172 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

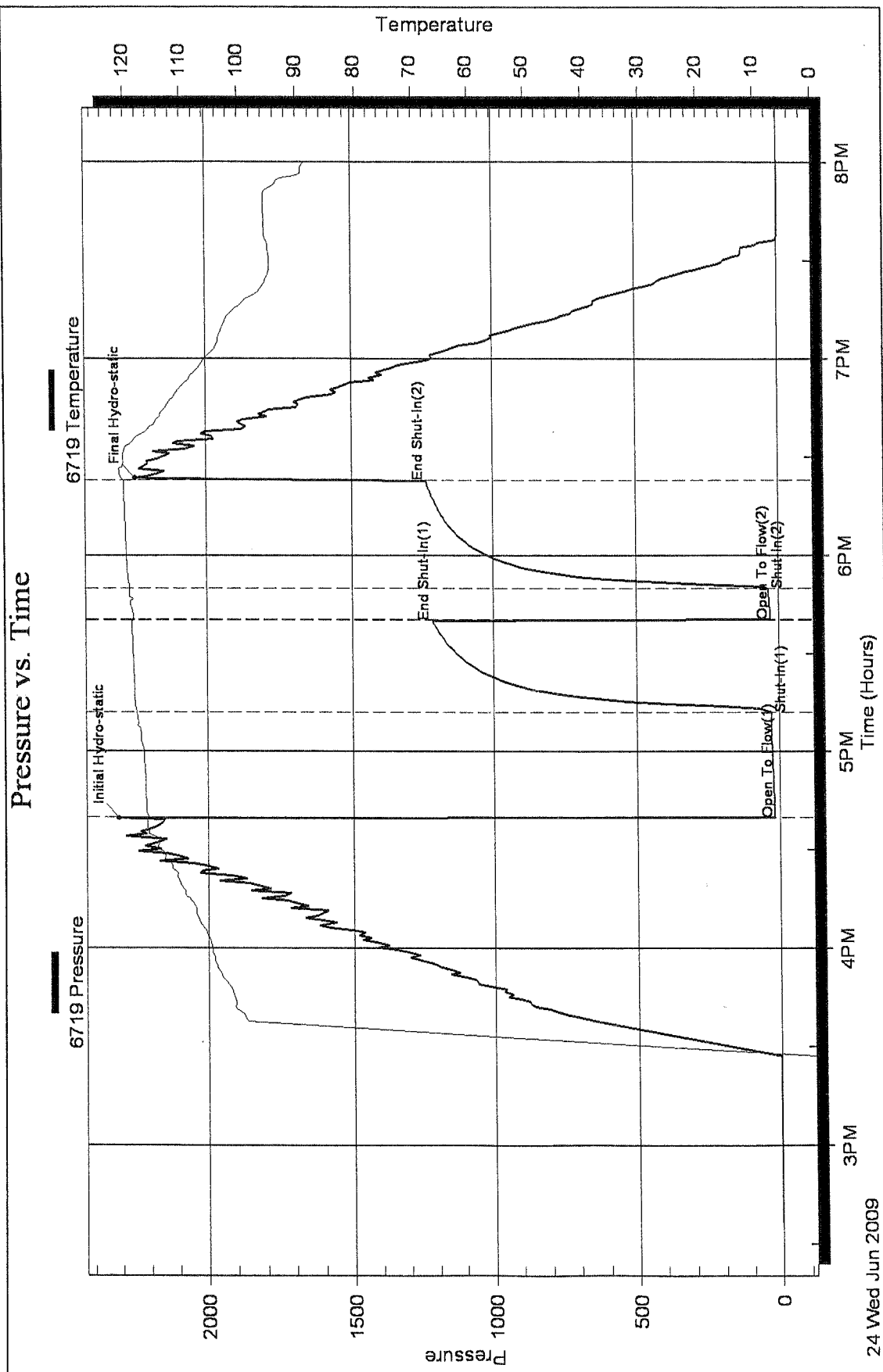
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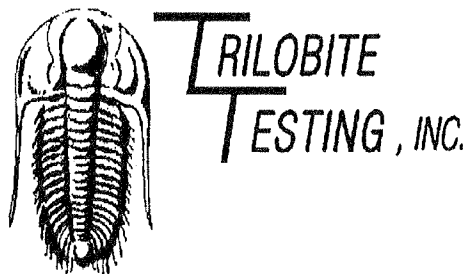
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Pintail Petroleum**

225 N Market
Suite 300
Wichita, Ks 67202

ATTN: Flip Phillips

31-20s-24w Ness KS

Nuss "JJ" #1-31

Start Date: 2009.06.25 @ 01:57:56

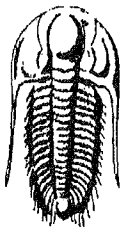
End Date: 2009.06.25 @ 09:16:11

Job Ticket #: 36335 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Pintail Petroleum

225 N Market
Suite 300
Wichita, Ks 67202
ATTN: Flip Phillips

Nuss "JJ" #1-31

31-20s-24w Ness KS

Job Ticket: 36335

DST#: 3

Test Start: 2009.06.25 @ 01:57:56

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:50:41

Time Test Ended: 09:16:11

Interval: **4482.00 ft (KB) To 4496.00 ft (KB) (TVD)**

Total Depth: 4496.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Reference Elevations: 2374.00 ft (KB)

2369.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6669**

Inside

Press@RunDepth: 78.57 psig @ 4483.00 ft (KB)

Start Date: 2009.06.25

End Date: 2009.06.25

Capacity: 7000.00 psig

Last Calib.: 2009.06.25

Start Time: 01:57:57

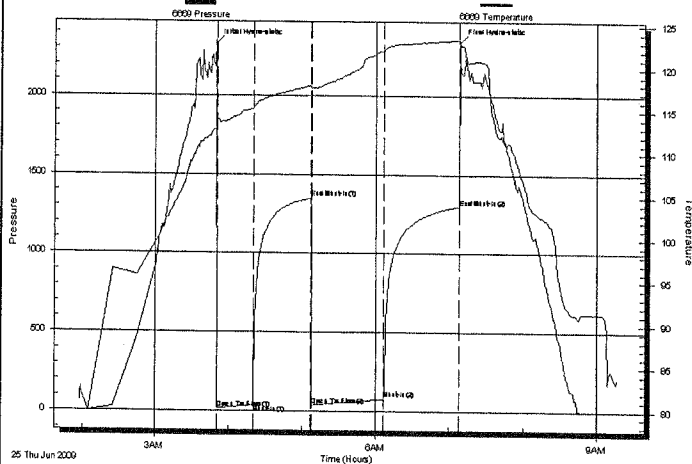
End Time: 09:16:11

Time On Btm: 2009.06.25 @ 03:50:26

Time Off Btm: 2009.06.25 @ 07:08:56

TEST COMMENT: IFP-Weak surface blow built to 2"
IS-no blow back
FFP-Weak surface blow built to 1.5"
FSI-no blow back

Pressure vs. Time



PRESSURE SUMMARY

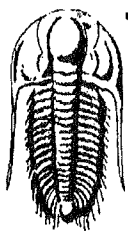
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2324.18	113.48	Initial Hydro-static
1	17.36	112.91	Open To Flow (1)
30	37.78	115.31	Shut-In (1)
77	1347.69	117.98	End Shut-In (1)
77	39.94	117.73	Open To Flow (2)
137	78.57	122.02	Shut-In (2)
198	1298.96	123.37	End Shut-In (2)
199	2337.60	123.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WM20%W, 80%M	0.59
30.00	Mud	0.15

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Petroleum

225 N Market
Suite 300
Wichita, Ks 67202
ATTN: Flip Phillips

Nuss "JJ" #1-31

31-20s-24w Ness KS

Job Ticket: 36335

DST#: 3

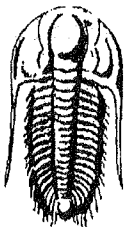
Test Start: 2009.06.25 @ 01:57:56

Tool Information

Drill Pipe:	Length: 4235.00 ft	Diameter: 3.82 inches	Volume: 60.03 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	61.23 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4482.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4462.00	
Shut In Tool	5.00			4467.00	
Hydraulic tool	5.00			4472.00	
Packer	5.00			4477.00	21.00 Bottom Of Top Packer
Packer	5.00			4482.00	
Stubb	1.00			4483.00	
Recorder	0.00	6669	Inside	4483.00	
Recorder	0.00	6719	Inside	4483.00	
Perforations	10.00			4493.00	
Bullnose	3.00			4496.00	14.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Petroleum

Nuss "JJ" #1-31

225 N Market
Suite 300
Wichita, Ks 67202
ATTN: Flip Phillips

31-20s-24w Ness KS

Job Ticket: 36335

DST#: 3

Test Start: 2009.06.25 @ 01:57:56

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 48.00 lb/gal

Viscosity: 9.40 sec/qt

Water Loss: in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

deg API

Water Salinity:

7400 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WM 20%W, 80%M	0.590
30.00	Mud	0.148

Total Length: 150.00 ft

Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .71 @ 82F 7400 chlorides

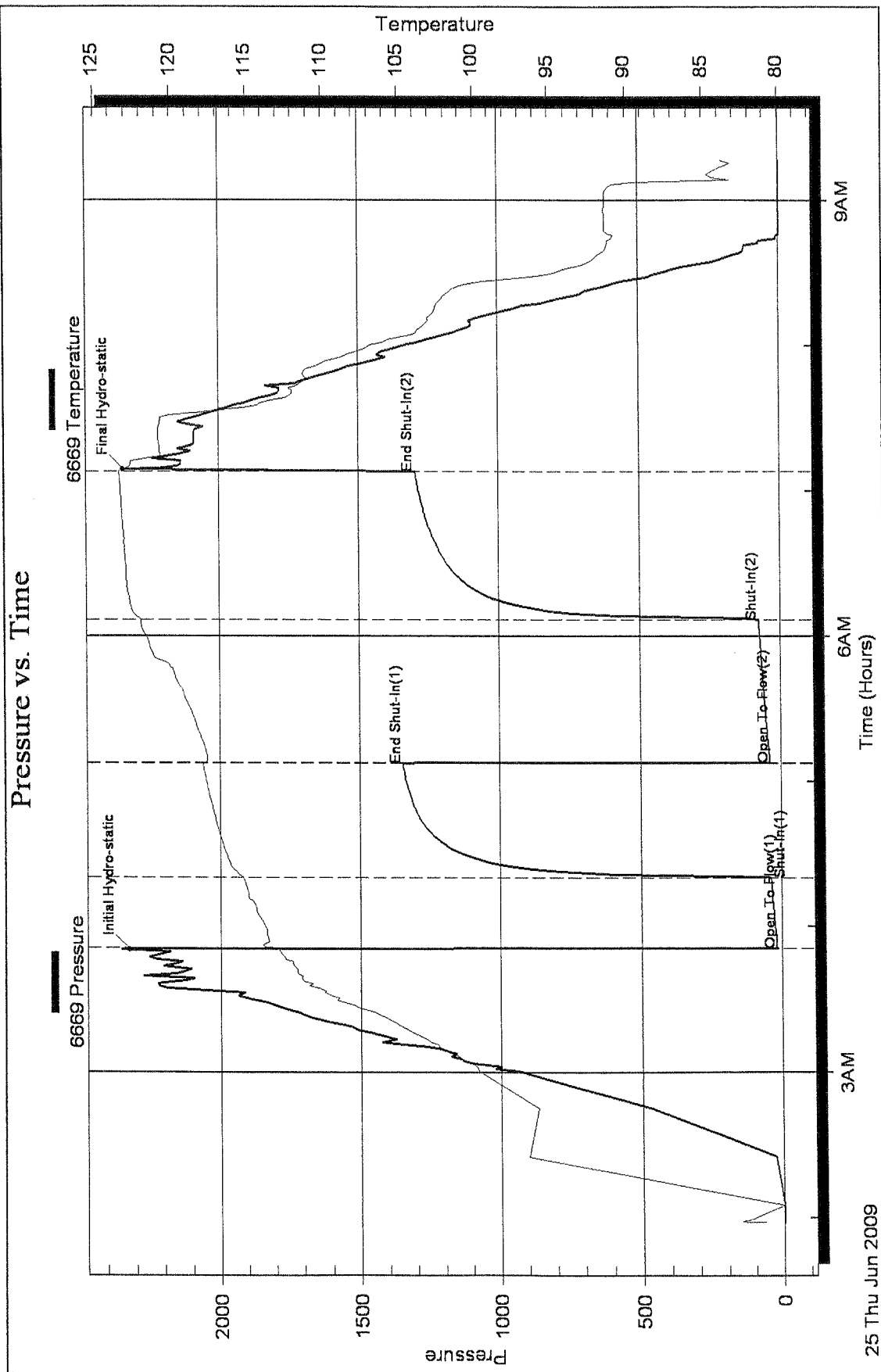
Serial #: 6669

Inside Pintail Petroleum

31-20s-24w Ness KS

DST Test Number: 3

Pressure vs. Time



Ref. No: 36335

Trilobite Testing, Inc