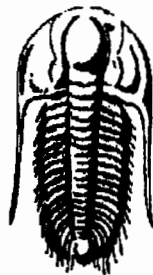


15-135-24973

19-16s-21w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pintail Pet., Ltd**

225 N Market 300
Wichita Ks 67202

CONFIDENTIAL

NOV 20 2009
ATTN: Flip Phillips

KCC
19 16S 21W Ness KS

Cambron'MP' #1-19

Start Date: 2009.10.07 @ 07:24:53

End Date: 2009.10.07 @ 13:23:38

Job Ticket #: 35474 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Pintail Pet., Ltd

Cambron'MP' #1-19

19 16S 21W Ness KS

DST # 1

Cher. Sd.

2009.10.07



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Pintail Pet., Ltd

225 N Market 300
Wichita Ks 67202

ATTN: Flip Phillips

Cambron'MP' #1-19

19 16S 21W Ness KS

Job Ticket: 35474

DST#: 1

Test Start: 2009.10.07 @ 07:24:53

GENERAL INFORMATION:

Formation: **Cher. Sd.**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 09:54:38

Time Test Ended: 13:23:38

Test Type: **Bottom Hole**

Tester: **Brett Dickinson**

Unit No:

Interval: **4206.00 ft (KB) To 4220.00 ft (KB) (TVD)**

Total Depth: **4220.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2306.00 ft (KB)**

2301.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6719 **Inside**

Press@RunDepth: **195.01 psig @ 4207.00 ft (KB)**

Start Date: **2009.10.07**

End Date:

2009.10.07

Start Time: **07:24:58**

End Time:

13:23:37

Capacity: **8000.00 psig**

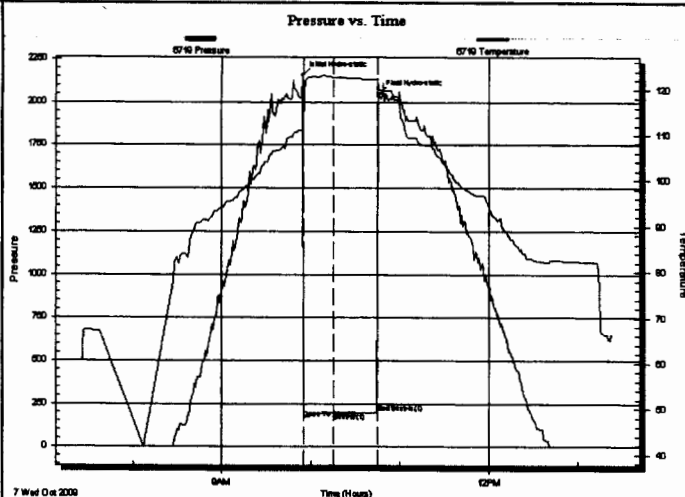
Last Calib.: **2009.10.07**

Time On Btm: **2009.10.07 @ 09:54:08**

Time Off Btm: **2009.10.07 @ 10:46:23**

TEST COMMENT: **IF- BOB in 3min**

FS- No blow



PRESSURE SUMMARY

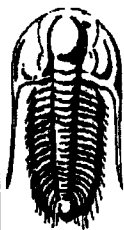
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.24	110.92	Initial Hydro-static
1	161.87	110.15	Open To Flow (1)
22	195.01	122.75	Shut-In (1)
51	195.85	122.20	End Shut-In (1)
53	2047.70	120.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	oil spotted Mud	0.15
90.00	MCW 70%W 30%M	0.44
240.00	water	2.27

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pintail Pet., Ltd

225 N Market 300
Wichita Ks 67202

ATTN: Flip Phillips

Cambron'MP' #1-19

19 16S 21W Ness KS

Job Ticket: 35474

DST#: 1

Test Start: 2009.10.07 @ 07:24:53

Tool Information

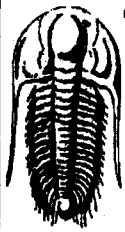
Drill Pipe:	Length: 3961.00 ft	Diameter: 3.80 inches	Volume: 55.56 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 87000.00 lb
		Total Volume:	- bbl	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4206.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4178.00	
Shut In Tool	5.00			4183.00	
Hydraulic tool	5.00			4188.00	
Jars	5.00			4193.00	
Safety Joint	3.00			4196.00	
Packer	5.00			4201.00	29.00 Bottom Of Top Packer
Packer	5.00			4206.00	
Stubb	1.00			4207.00	
Recorder	0.00	6669	Inside	4207.00	
Recorder	0.00	6719	Inside	4207.00	
Perforations	10.00			4217.00	
Bullnose	3.00			4220.00	14.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Pet., Ltd

225 N Market 300
Wichita Ks 67202

ATTN: Flip Phillips

Cambron'MP' #1-19

19 16S 21W Ness KS

Job Ticket: 35474

DST#: 1

Test Start: 2009.10.07 @ 07:24:53

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 9.58 in³

Resistivity: ohm.m

Salinity: 2000.00 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
30.00	oil spotted Mud	0.148
90.00	MCW 70%W 30%M	0.443
240.00	water	2.273

Total Length: 360.00 ft

Total Volume: 2.864 bbl

Num Fluid Samples: 0

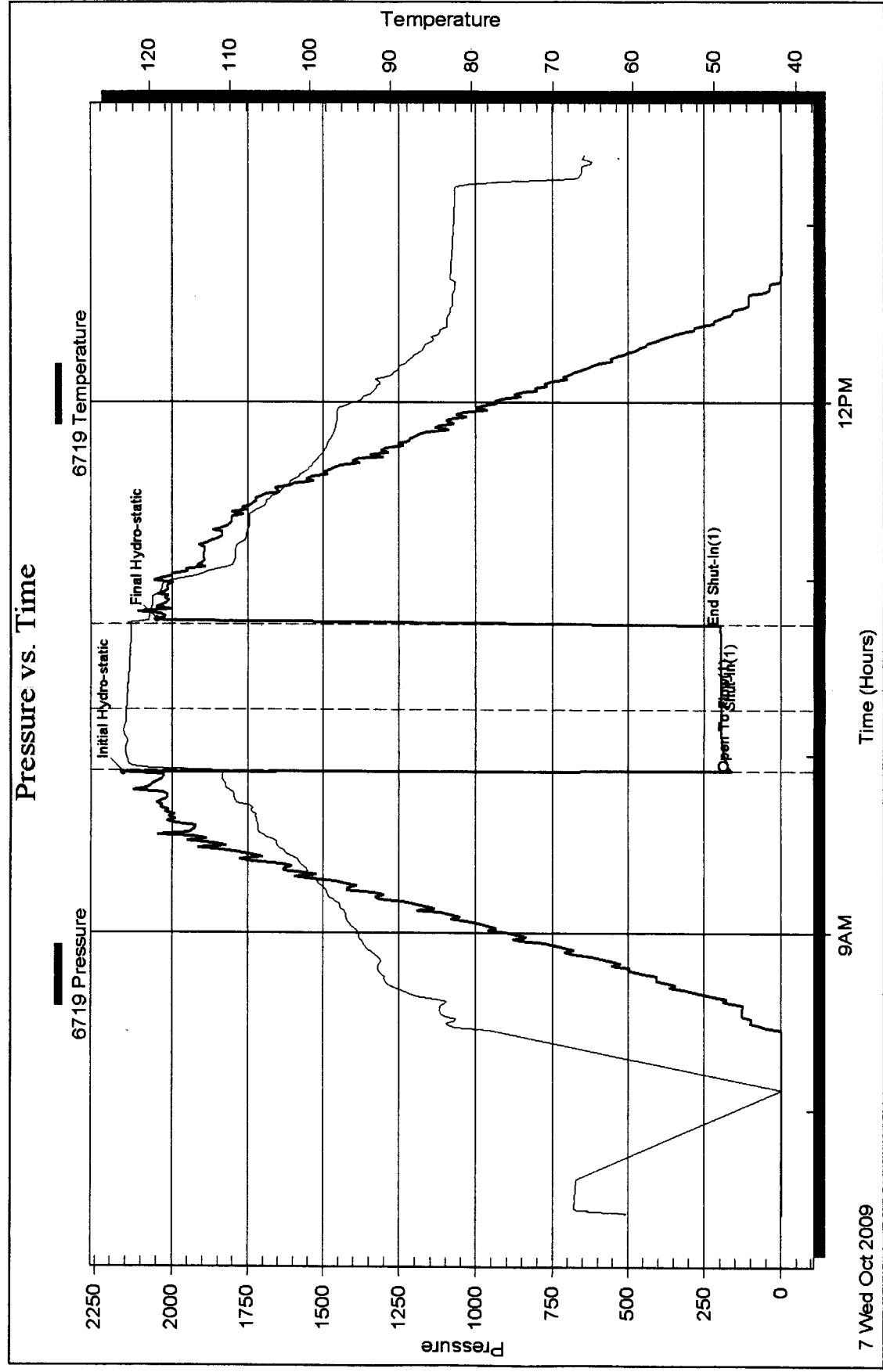
Num Gas Bombs: 0

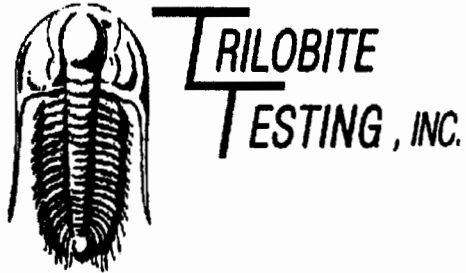
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Pintail Pet., Ltd**

225 N Market 300
Wichita Ks 67202

ATTN: Flip Phillips

19 16S 21W Ness KS

Cambron'MP' #1-19

Start Date: 2009.10.07 @ 21:22:28

End Date: 2009.10.08 @ 03:20:43

Job Ticket #: 35475 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 Pet., Ltd

225 N Market 300
Wichita Ks 67202

ATTN: Flip Phillips

Cambron'MP' #1-19

19 16S 21W Ness KS

Job Ticket: 35475

DST#: 2

Test Start: 2009.10.07 @ 21:22:28

GENERAL INFORMATION:

Formation: **Kutina Sd.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:39:58

Time Test Ended: 03:20:43

Test Type: Bottom Hole

Tester: Brett Dickinson

Unit No: 44

Interval: **4244.00 ft (KB) To 4272.00 ft (KB) (TVD)**

Total Depth: 4272.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2306.00 ft (KB)

2301.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 19.29 psig @ 4245.00 ft (KB)

Start Date: 2009.10.07

End Date: 2009.10.08

Start Time: 21:22:33

End Time: 03:20:42

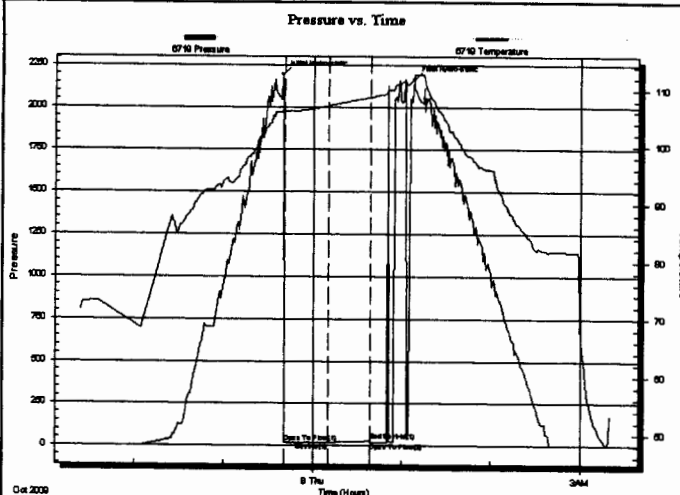
Capacity: 8000.00 psig

Last Calib.: 2009.10.08

Time On Btm: 2009.10.07 @ 23:38:43

Time Off Btm: 2009.10.08 @ 01:07:43

TEST COMMENT: IF- 1/4in blow
ISI-No blow
FF-very weak surface blow flush tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2196.13	106.13	Initial Hydro-static
2	18.95	106.22	Open To Flow (1)
32	19.29	107.22	Shut-In (1)
60	27.91	108.63	End Shut-In (1)
60	18.14	108.64	Open To Flow (2)
89	2169.07	112.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
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 Pet., Ltd

225 N Market 300
Wichita Ks 67202

ATTN: Flip Phillips

Cambron'MP' #1-19

19 16S 21W Ness KS

Job Ticket: 35475

DST#: 2

Test Start: 2009.10.07 @ 21:22:28

Tool Information

Drill Pipe:	Length: 3991.00 ft	Diameter: 3.80 inches	Volume: 55.98 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	4244.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	57.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4216.00	
Shut In Tool	5.00			4221.00	
Hydraulic tool	5.00			4226.00	
Jars	5.00			4231.00	
Safety Joint	3.00			4234.00	
Packer	5.00			4239.00	29.00 Bottom Of Top Packer
Packer	5.00			4244.00	
Stubb	1.00			4245.00	
Recorder	0.00	6669	Inside	4245.00	
Recorder	0.00	6719	Inside	4245.00	
Perforations	24.00			4269.00	
Bullnose	3.00			4272.00	28.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pintail Pet., Ltd

Cambron'MP' #1-19

225 N Market 300
Wichita Ks 67202

19 16S 21W Ness KS

Job Ticket: 35475

DST#: 2

ATTN: Flip Phillips

Test Start: 2009.10.07 @ 21:22:28

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

