

DRILL STEM TEST REPORT

Prepared For: **Harry A Spring**

PO Box 1788
Ardmore OK 73402

ATTN: Mike Daignon

27 6 21 Graham KS

Pennington # 2

Start Date: 2007.05.20 @ 21:54:24

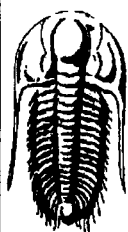
End Date: 2007.05.21 @ 05:04:24

Job Ticket #: 28001 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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TESTING, INC

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Job Ticket: 28001

DST#: 1

Test Start: 2007.05.20 @ 21:54:24

GENERAL INFORMATION:

Formation: **Topeka**

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

Time Tool Opened: 23:41:24

Time Test Ended: 05:04:24

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3465.00 ft (KB) To 3476.00 ft (KB) (TVD)**

Total Depth: **3476.00 ft (KB) (TVD)**

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

Reference Elevations: **2305.00 ft (KB)**

2300.00 ft (CF)

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

Serial #: 6669 **Inside**

Press@RunDepth: **200.65 psig @ 3468.00 ft (KB)**

Start Date: **2007.05.20**

End Date:

2007.05.21

Start Time: **21:54:29**

End Time:

05:04:23

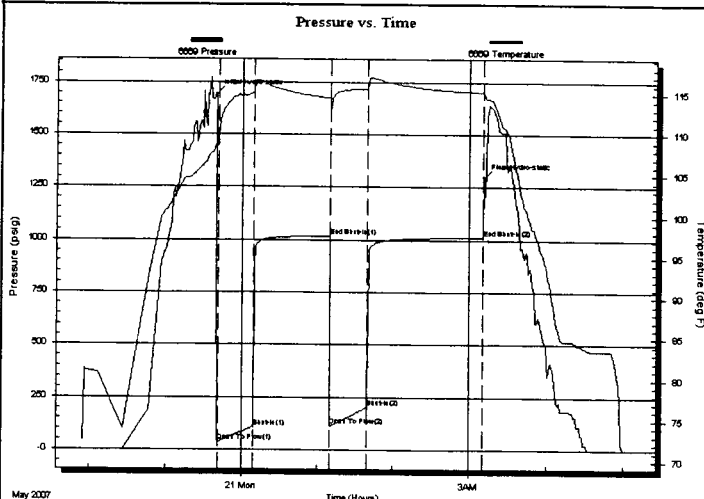
Capacity: **7000.00 psig**

Last Calib.: **2007.05.21**

Time On Btm: **2007.05.20 @ 23:39:24**

Time Off Btm: **2007.05.21 @ 03:11:23**

TEST COMMENT: IF Strong BOB 12 min.
ISI Dead
FF Strong BOB 15 min.
FSI Dead



PRESSURE SUMMARY

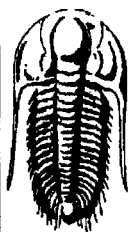
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.16	108.89	Initial Hydro-static
2	38.50	109.83	Open To Flow(1)
30	108.08	115.12	Shut-In(1)
91	1019.20	114.50	End Shut-In(1)
91	112.87	112.82	Open To Flow(2)
120	200.65	115.64	Shut-In(2)
212	1013.94	115.21	End Shut-In(2)
212	1297.13	114.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
387.00	S.Water	5.17

Gas Rates

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

Harry A Spring

Pennington # 2

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27 6 21 Graham KS

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Job Ticket: 28001

DST#: 1

Test Start: 2007.05.20 @ 21:54:24

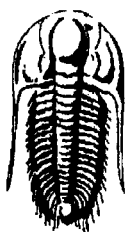
Tool Information

Drill Pipe:	Length: 3421.00 ft	Diameter: 3.80 inches	Volume: 47.99 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	48.13 bbl	Tool Chased	10.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3465.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	11.00 ft				
Tool Length:	31.00 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			3446.00	
Shut In Tool	5.00			3451.00	
Hydraulic tool	5.00			3456.00	
Packer	4.00			3460.00	20.00 Bottom Of Top Packer
Packer	5.00			3465.00	
Stubb	1.00			3466.00	
Perforations	2.00			3468.00	
Recorder	0.00	6669	Inside	3468.00	
Perforations	5.00			3473.00	
Recorder	0.00	13308	Outside	3473.00	
Bullnose	3.00			3476.00	11.00 Bottom Packers & Anchor

Total Tool Length: 31.00



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FLUID SUMMARY

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DST#: 1

ATTN: Mike Daignon

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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: 22000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 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
387.00	S.Water	5.174

Total Length: 387.00 ft

Total Volume: 5.174 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

