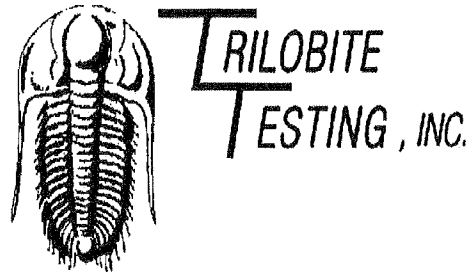


15-069-20317

31-26s-27w

IND



DRILL STEM TEST REPORT

Prepared For: **John O. Farmer**

370 W Wichita Ave
PO Box 352
Russell KS 67665

ATTN: Keith Reavis

31 26 27 Gray KS

Circle D-#1

Start Date: 2009.06.27 @ 02:55:30

End Date: 2009.06.27 @ 10:01:00

Job Ticket #: 34035 DST #: 1

KCC
JUL 24 2009
CONFIDENTIAL

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

John O. Farmer

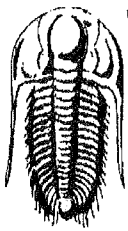
Circle D-#1

31 26 27 Gray KS

DST # 1

Morrow

2009.06.27



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer

370 W Wichita Ave
PO Box 352
Russell KS 67665
ATTN: Keith Reavis

Circle D-#1

31 26 27 Gray KS

Job Ticket: 34035

DST#: 1

Test Start: 2009.06.27 @ 02:55:30

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:46:40

Time Test Ended: 10:01:00

Test Type: Conventional Bottom Hole

Tester: Mike Slomp

Unit No: 28

Interval: **4960.00 ft (KB) To 5027.00 ft (KB) (TVD)**

Total Depth: 5027.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2579.00 ft (KB)

2569.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **6753**

Inside

Press@RunDepth: 46.20 psig @ 4962.00 ft (KB)

Start Date: 2009.06.27

End Date:

2009.06.27

Start Time: 02:55:31

End Time:

10:01:00

Capacity: 7000.00 psig

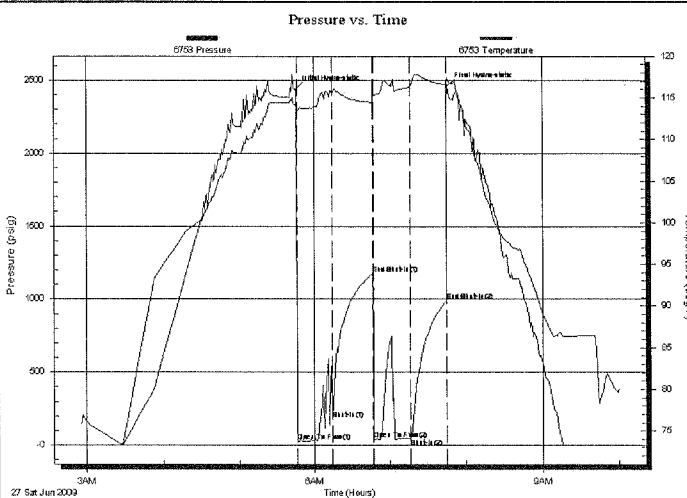
Last Calib.: 2009.06.27

Time On Btm: 2009.06.27 @ 05:45:30

Time Off Btm: 2009.06.27 @ 07:46:20

TEST COMMENT: IF- Wk surface blow, .5 inch in 30min.
some plugging towards end of flow
IS- No blow back

FF- Wk surface blow, .25 inch in 30min, some plugging, then broke through



PRESSURE SUMMARY

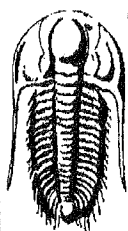
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2438.48	114.14	Initial Hydro-static
2	25.44	113.34	Open To Flow (1)
30	181.24	115.48	Shut-In(1)
61	1171.73	114.47	End Shut-In(1)
62	37.12	115.26	Open To Flow (2)
91	46.20	116.28	Shut-In(2)
120	988.45	116.59	End Shut-In(2)
121	2462.30	117.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	100% mud	0.70

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer

Circle D-#1

370 W Wichita Ave
PO Box 352
Russell KS 67665
ATTN: Keith Reavis

31 26 27 Gray KS

Job Ticket: 34035

DST#: 1

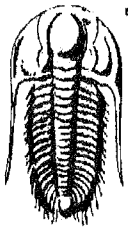
Test Start: 2009.06.27 @ 02:55:30

Tool Information

Drill Pipe:	Length: 4940.00 ft	Diameter: 3.80 inches	Volume: 69.30 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 69.30 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4960.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	94.00 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			4934.00	
Shut In Tool	5.00			4939.00	
Hydraulic tool	5.00			4944.00	
Jars	5.00			4949.00	
Safety Joint	2.00			4951.00	
Packer	5.00			4956.00	27.00 Bottom Of Top Packer
Packer	4.00			4960.00	
Stubb	1.00			4961.00	
Perforations	1.00			4962.00	
Recorder	0.00	8374	Inside	4962.00	
Recorder	0.00	6753	Inside	4962.00	
Perforations	29.00			4991.00	
Change Over Sub	1.00			4992.00	
Drill Pipe	31.00			5023.00	
Change Over Sub	1.00			5024.00	
Bullnose	3.00			5027.00	67.00 Bottom Packers & Anchor
Total Tool Length:	94.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer

Circle D-#1

370 W Wichita Ave

31 26 27 Gray KS

PO Box 352

Job Ticket: 34035

DST#: 1

Russell KS 67665

Test Start: 2009.06.27 @ 02:55:30

ATTN: Keith Reavis

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: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	100% mud	0.701

Total Length: 50.00 ft

Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

31 26 27 Gray KS

John O. Farmer

Inside

Serial #: 6753

Pressure vs. Time

