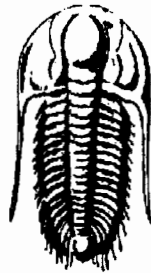


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15-057-20563

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KCC WICHITA

DRILL STEM TEST REPORT

RELEASED

Prepared For: Roberts Resources

JAN 04 2005

520 S. Holland Ste. 207

Wichita, KS 67209

FROM CONFIDENTIAL
CONFIDENTIAL

ATTN: Kent Roberts

ORIGINAL

14-28s-21w Ford Ks

KCC

Vice #1-14x

SEP 10 2002

Start Date: 2002.10.01 @ 06:33:34

End Date: 2002.10.01 @ 13:45:49

Job Ticket #: 16360

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Roberts Resources

Vice #1-14x

14-28s-21w Ford Ks.

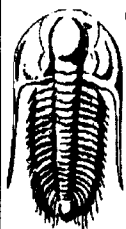
DST # 1

Lans, KC

2002.10.01

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ORIGINAL


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Roberts Resources

RELEASED

Vice #1-14x

520 S.Holland Ste.207
Wichita Ks. 67209

JAN 04 2005

14-28s-21w Ford Ks.

Job Ticket: 16360

DST#: 1

ATTN: Kent Roberts

FROM CONFIDENTIAL

Test Start: 2002.10.01 @ 06:33:34

GENERAL INFORMATION:

Formation: **Lans. KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:50:34

Time Test Ended: 15:03:49

Interval: **4311.00 ft (KB) To 4331.00 ft (KB) (TVD)**

Total Depth: 4331.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

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SEP 10 2002

CONFIDENTIAL

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Reference Elevations: 2372.00 ft (KB)

2363.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **2342**

Inside

Press@RunDepth: 307.34 psig @ 4312.00 ft (KB)

Start Date: 2002.10.01

End Date:

2002.10.01

Capacity: 7000.00 psig

Last Calib.: 2002.10.01

Start Time: 06:33:35

End Time:

15:03:49

Time On Btm: 2002.10.01 @ 08:49:19

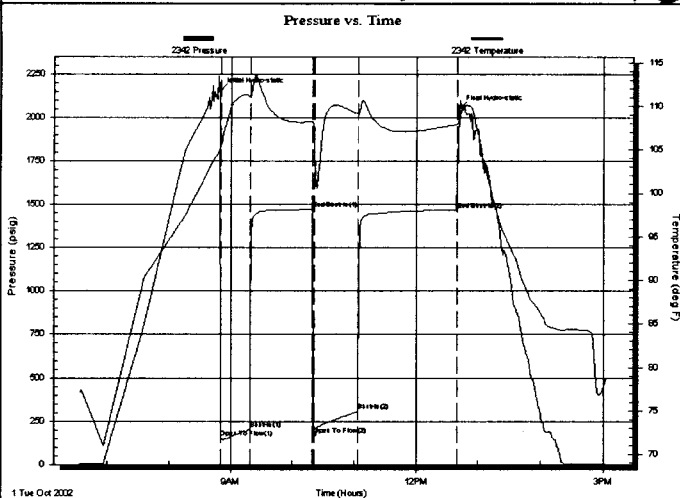
Time Off Btm: 2002.10.01 @ 12:41:19

TEST COMMENT: IF: Strong blow . GTS in 2.5 mins. (see gas volume report)

IS: No blow.

FF: Strong blow . (see gas volume report)

FS: Weak to fair blow 1 1/8"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.24	105.11	Initial Hydro-static
2	155.85	105.44	Open To Flow (1)
30	206.37	111.01	Shut-in(1)
91	1472.00	108.22	End Shut-in(1)
92	171.54	105.01	Open To Flow (2)
135	307.34	109.11	Shut-in(2)
231	1469.32	107.90	End Shut-in(2)
232	2050.60	108.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
370.00	Salt Water Rw .07 ohms @ 74 deg.	5.19
85.00	WM 27%w 73%m	1.19

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	13.00	427.98
Last Gas Rate	0.75	20.00	537.32
Max. Gas Rate	0.75	20.00	537.32

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ORIGINAL

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		TOOL DIAGRAM
	Roberts Resources 520 S.Holland Ste.207 Wichita Ks. 67209 ATTN: Kent Roberts	Vice #1-14x 14-28s-21w Ford Ks. Job Ticket: 16360 DST#: 1 Test Start: 2002.10.01 @ 06:33:34	

Tool Information			
Drill Pipe:	Length: 4292.00 ft	Diameter: 3.80 inches	Volume: 60.21 bbl
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl
		Total Volume: 60.21 bbl	
Drill Pipe Above KB:	8.00 ft		
Depth to Top Packer:	4311.00 ft		
Depth to Bottom Packer:	ft		
Interval between Packers:	20.00 ft		
Tool Length:	47.00 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	
C.O. Sub	1.00			4285.00		
S.I. Tool	5.00			4290.00		
HMV	5.00			4295.00		
Jars	5.00			4300.00		
Safety Joint	2.00			4302.00		
Packer	4.00			4306.00	27.00	Bottom Of Top Packer
Packer	5.00			4311.00		
Stubb	1.00			4312.00		
Recorder	0.00	2342	Inside	4312.00		
Perforations	14.00			4326.00		
Recorder	0.00	13222	Outside	4326.00		
Bullnose	5.00			4331.00	20.00	Bottom Packers & Anchor
Total Tool Length:		47.00				

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TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

Vice #1-14x

520 S.Holland Ste.207
Wichita Ks. 67209

14-28s-21w Ford Ks.

Job Ticket: 16360

DST#: 1

ATTN: Kent Roberts

Test Start: 2002.10.01 @ 06:33:34

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: 114000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 13.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
370.00	Salt Water Rw .07 ohms @ 74 deg.	5.190
85.00	WM 27%w 73%m	1.192

Total Length: 455.00 ft

Total Volume: 6.382 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources

Vice #1-14x

520 S.Holland Ste.207
Wichita Ks. 67209

14-28s-21w Ford Ks.

Job Ticket: 16360

DST#:1

ATTN: Kent Roberts

Test Start: 2002.10.01 @ 06:33:34

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	0.75	13.00	427.98
1	20	0.75	16.00	474.84
1	30	0.75	17.00	490.46
2	10	0.75	20.00	537.32
2	20	0.75	20.00	537.32
2	30	0.75	20.00	537.32
2	40	0.75	20.00	537.32
2	45	0.75	20.00	537.32

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Pressure vs. Time

