

JAN 10



DRILL STEM TEST REPORT

Prepared For: **Key Gas Corporation**

410 Urban Drive
Hutchinson, KS 67501

ORIGINAL

ATTN: Rod Anderson

36-32s-15w Barber Ks

Carr A#2-36

Start Date: 2001.12.21 @ 00:23:40

End Date: 2001.12.21 @ 10:45:55

Job Ticket #: 15755

DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 06 2003

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

ORIGINAL


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Key Gas Corporation

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Test Start: 2001.12.21 @ 00:23:40

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:26:10

Time Test Ended: 10:45:55

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 13

Interval: **4860.00 ft (KB) To 4981.00 ft (KB) (TVD)**

Total Depth: 4981.00 ft (KB) (TVD)

Reference Elevations: 1988.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Poor

1980.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 2342

Inside

Press@RunDepth: 223.99 psig @ 4861.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.12.21

End Date:

2001.12.21

Last Calib.: 2001.12.21

Start Time: 00:23:41

End Time:

10:45:55

Time On Btrr: 2001.12.21 @ 03:25:25

Time Off Btrr: 2001.12.21 @ 07:12:40

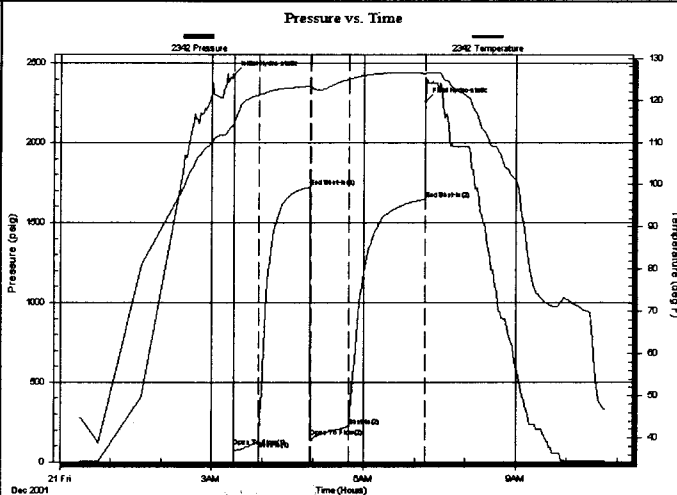
TEST COMMENT: IF: Strong blow . B.O.B. in 1 min. GTS in 16 mins.

(see gas volume report)

IS: Strong blow . B.O.B

FF: Strong blow . (see gas volume report)

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PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2427.77	114.55	Initial Hydro-static
1	92.56	114.76	Open To Flow (1)
31	129.74	121.23	Shut-in(1)
91	1721.43	123.26	End Shut-in(1)
92	155.85	123.18	Open To Flow (2)
137	223.99	124.96	Shut-in(2)
227	1642.29	126.41	End Shut-in(2)
228	2259.33	126.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCWM 20%o 20%w 60%w	2.52
170.00	SOCGM 5%o 25%g 70%m	2.38
90.00	GCM 15%g 85%m	1.26

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.60
Last Gas Rate	0.25	7.00	33.95
Max. Gas Rate	0.25	11.00	40.30


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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 4843.00 ft	Diameter: 3.80 inches	Volume: 67.93 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 67.93 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4860.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	121.00 ft			
Tool Length:	148.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4834.00	
S.I. Tool	5.00			4839.00	
HMV	5.00			4844.00	
Jars	5.00			4849.00	
Safety Joint	2.00			4851.00	
Packer	4.00			4855.00	27.00 Bottom Of Top Packer
Packer	5.00			4860.00	
Stubb	1.00			4861.00	
Recorder	0.00	2342	Inside	4861.00	
Perforations	19.00			4880.00	
C.O. Sub	1.00			4881.00	
Blank Spacing	94.00			4975.00	
C.O. Sub	1.00			4976.00	
Recorder	0.00	10248	Outside	4976.00	
Bullnose	5.00			4981.00	121.00 Bottom Packers & Anchor

Total Tool Length: 148.00



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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:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	OCWM 20%o 20%w 60%w	2.525
170.00	SOCGM 5%o 25%g 70%m	2.385
90.00	GCM 15%g 85%m	1.262

Total Length: 440.00 ft

Total Volume: 6.172 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



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GAS RATES

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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	20	0.25	3.00	27.60
1	20	0.25	3.00	27.60
1	30	0.25	6.00	32.36
2	10	0.25	11.00	40.30
2	20	0.25	9.00	37.12
2	30	0.25	7.00	33.95

Serial #: 2342

Inside

Key Gas Corporation

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Pressure vs. Time

