

DRILL STEM TEST REPORT

Prepared For: **EOG Resources**

3817 NW Expressway
Ste 500
Oklahoma City OK 73112

ATTN: Dale Passig

1/35S/38W

Jayhawk 1#1

Start Date: 2005.11.28 @ 07:30:51

End Date: 2005.11.28 @ 21:31:49

Job Ticket #: 22360 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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TESTING, INC.

DRILL STEM TEST REPORT

EOG Resources

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Job Ticket: 22360

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Test Start: 2005.11.28 @ 07:30:51

GENERAL INFORMATION:

Formation: **Keyes**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:42:49

Time Test Ended: 21:31:49

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 20

Interval: **6379.00 ft (KB) To 6443.00 ft (KB) (TVD)**

Total Depth: **6443.00 ft (KB) (TVD)**

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3194.00 ft (KB)

3182.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6770

Inside

Press@RunDepth: 758.68 psig @ 6382.00 ft (KB)

Start Date: 2005.11.28

End Date: 2005.11.28

Start Time: 07:30:51

End Time: 21:31:49

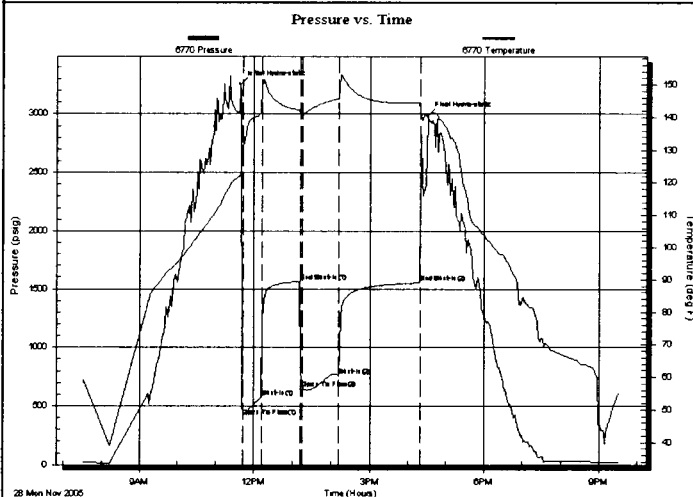
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2005.11.28 @ 11:38:19

Time Off Btm: 2005.11.28 @ 16:31:04

TEST COMMENT: IF- Strong building blow. BOB in 30 sec. GTS in 4 min. Gauged gas.
IS- Blow back ASAC. Built to BOB in 13 min.
FF- Strong building blow. BOB ASAO. GTS ASAO. Gauged gas.
FS- Blow back ASAC. Built to



PRESSURE SUMMARY

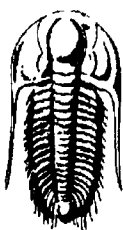
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3251.96	122.39	Initial Hydro-static
5	412.98	129.90	Open To Flow (1)
35	572.06	141.31	Shut-In(1)
94	1564.16	142.28	End Shut-In(1)
97	652.63	139.63	Open To Flow (2)
154	758.68	145.64	Shut-In(2)
281	1552.10	144.47	End Shut-In(2)
293	2984.51	141.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	20% Gas 10% Mud 70% Water	0.91
558.00	5% Mud 95% Water	6.12
372.00	100% Water	5.22

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	18.00	506.08
Last Gas Rate	0.75	64.00	1224.60
Max. Gas Rate	0.75	64.00	1224.60



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TOOL DIAGRAM

EOG Resources

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Job Ticket: 22360

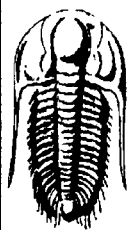
DST#: 1

Test Start: 2005.11.28 @ 07:30:51

Tool Information

Drill Pipe:	Length: 5990.00 ft	Diameter: 3.80 inches	Volume: 84.02 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: 22000.00 lb
Drill Collar:	Length: 373.00 ft	Diameter: 2.25 inches	Volume: 1.83 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	85.85 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 102000.0 lb
Depth to Top Packer:	6379.00 ft			Final 112000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 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			6350.00	
Shut In Tool	5.00			6355.00	
Sampler	3.00			6358.00	
Hydraulic tool	5.00			6363.00	
Jars	5.00			6368.00	
Safety Joint	2.00			6370.00	
Packer	5.00			6375.00	30.00 Bottom Of Top Packer
Packer	4.00			6379.00	
Stubb	1.00			6380.00	
Perforations	2.00			6382.00	
Recorder	0.00	6770	Inside	6382.00	
Change Over Sub	1.00			6383.00	
Drill Pipe	31.00			6414.00	
Perforations	25.00			6439.00	
Change Over Sub	1.00			6440.00	
Recorder	0.00	10993	Inside	6440.00	
Bullnose	3.00			6443.00	64.00 Bottom Packers & Anchor
Total Tool Length:		94.00			



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FLUID SUMMARY

EOG Resources

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3817 NW Expressway

1/35S/38W

Ste 500

Job Ticket: 22360

DST#: 1

Oklahoma City OK 73112

Test Start: 2005.11.28 @ 07:30:51

ATTN: Dale Passig

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: 200000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: 0.09 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	20% Gas 10% Mud 70% Water	0.915
558.00	5% Mud 95% Water	6.124
372.00	100% Water	5.218

Total Length: 1116.00 ft

Total Volume: 12.257 bbl

Num Fluid Samples: 1

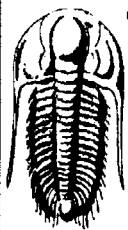
Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Gas was flammable.



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GAS RATES

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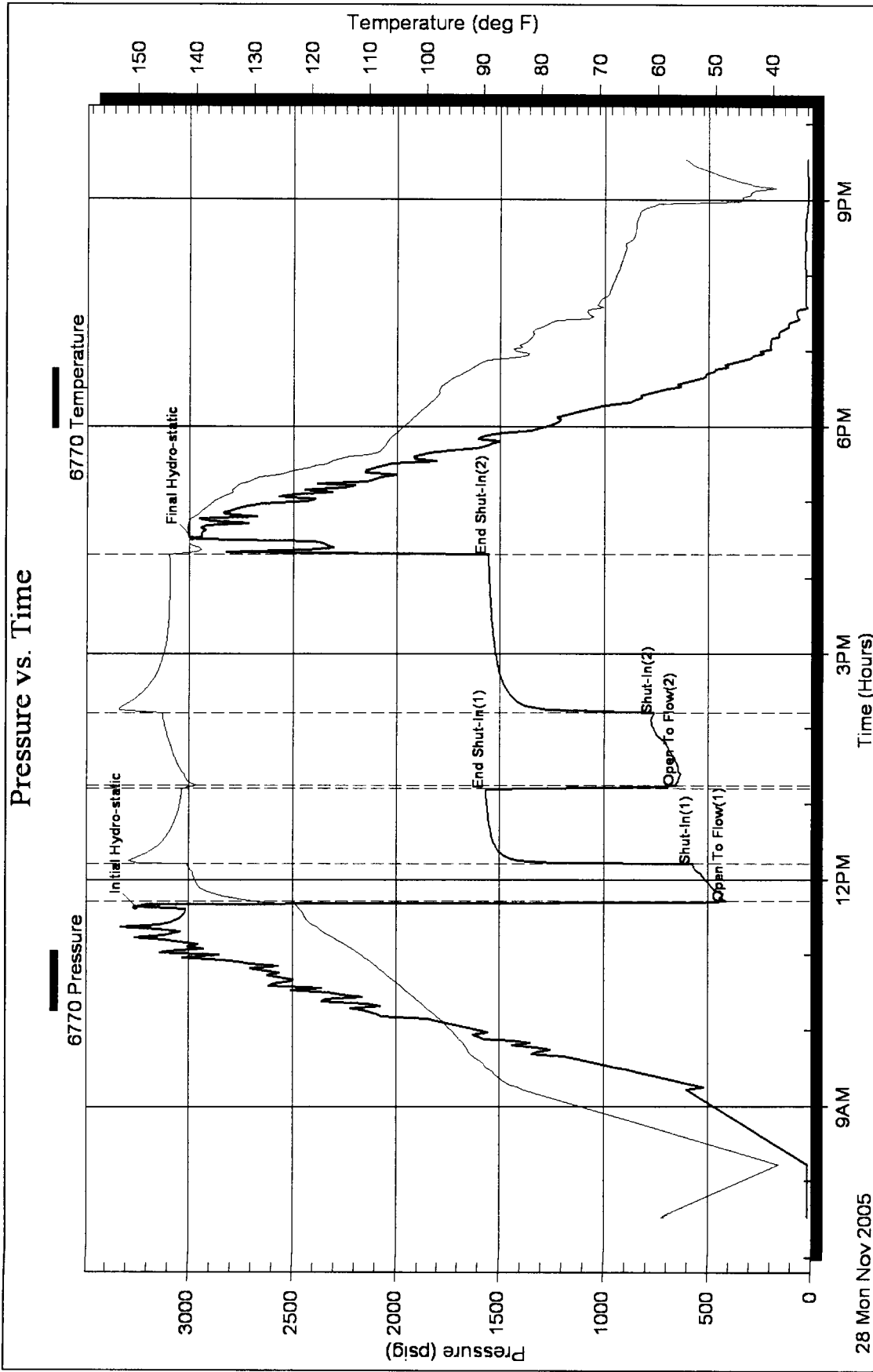
Gas Rates Information

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 (m³/d)
1	10	0.75	18.00	506.08
1	20	0.75	26.00	631.04
1	30	0.75	34.00	756.00
2	10	0.75	49.00	990.30
2	20	0.75	50.00	1005.92
2	30	0.75	62.00	1193.36
2	40	0.75	62.00	1193.36
2	50	0.75	60.00	1162.12
2	60	0.75	64.00	1224.60

Pressure vs. Time





GAS VOLUME REPORT

E. O. G. Lesauces
OPERATOR

Daylaw K 1#1
WELL NAME AND NO.

DST NO.

Remarks:

Flammable