



DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc**

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Herb Nutter

35 31 39 Stevens KS

Cynthia #35-1

Start Date: 2007.12.08 @ 09:45:00

End Date: 2007.12.09 @ 00:03:00

Job Ticket #: 27198 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

EOG Resources Inc

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Herb Nutter

Cynthia #35-1

35 31 39 Stevens KS

Job Ticket: 27198

DST#: 1

Test Start: 2007.12.08 @ 09:45:00

GENERAL INFORMATION:

Formation: **St. Louis**

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

Time Tool Opened: 13:19:30

Time Test Ended: 00:03:00

Test Type: **Conventional Bottom Hole**

Tester: **Harley Davidson**

Unit No: **33**

Interval: **6041.00 ft (KB) To 6056.00 ft (KB) (TVD)**

Total Depth: **6056.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **3195.00 ft (KB)**

3183.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: 8355

Press@RunDepth: **1640.31 psig @ ft (KB)**

Start Date: **2007.12.08**

End Date: **2007.12.09**

Start Time: **09:45:01**

End Time: **00:03:00**

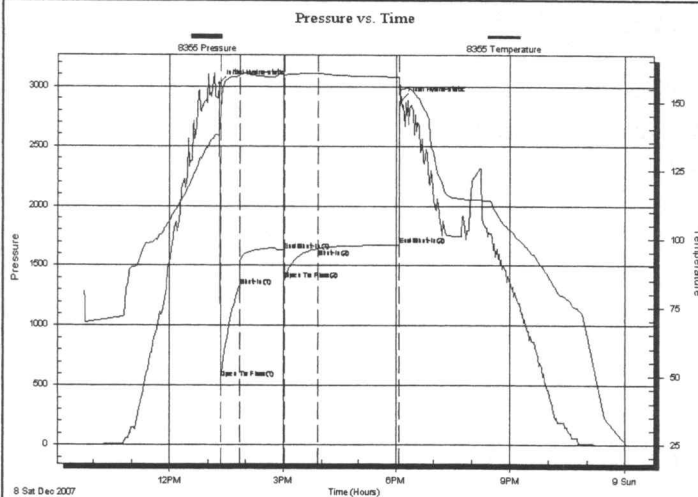
Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2007.12.08 @ 13:17:45**

Time Off Btm: **2007.12.08 @ 18:08:15**

TEST COMMENT: IF Strong blow BOB 30 sec. NO GTS
ISI Weak surface blow
FF Strong blow BOB 3 min. NO GTS
FSI BOB blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3022.21	137.91	Initial Hydro-static
2	560.65	146.17	Open To Flow (1)
32	1329.57	159.46	Shut-In(1)
103	1626.80	160.10	End Shut-In(1)
104	1385.02	159.91	Open To Flow (2)
157	1640.31	160.57	Shut-In(2)
287	1675.39	159.21	End Shut-In(2)
291	2884.75	154.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	100% condensate	1.26
3910.00	100%W @ 85000 CHL.	21.73
0.00	1500 GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
----------------	-----------------	------------------



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources Inc

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Herb Nutter

Cynthia #35-1

35 31 39 Stevens KS

Job Ticket: 27198

DST#: 1

Test Start: 2007.12.08 @ 09:45:00

Tool Information

Drill Pipe:	Length: 5665.00 ft	Diameter: 2.25 inches	Volume: 27.86 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: 365.00 ft	Diameter: 3.80 inches	Volume: 5.12 bbl	Weight to Pull Loose:	105000.0 lb
		Total Volume:	32.98 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	6041.00 ft			Final	86000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter:	6.78 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	2.00			6012.00	
Shut In Tool	5.00			6017.00	
Sampler	3.00			6020.00	
Hydraulic tool	5.00			6025.00	
Jars	5.00			6030.00	
Safety Joint	2.00			6032.00	
Packer	5.00			6037.00	31.00 Bottom Of Top Packer
Packer	4.00			6041.00	
Stubb	1.00			6042.00	
Perforations	1.00			6043.00	
Perforations	9.00			6052.00	
Bullnose	4.00			6056.00	15.00 Bottom Packers & Anchor

Total Tool Length: 46.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc

Cynthia #35-1

3817 NW Expressway Ste 500
Oklahoma City OK 73112

35 31 39 Stevens KS

ATTN: Herb Nutter

Job Ticket: 27198

DST#: 1

Test Start: 2007.12.08 @ 09:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 6.59 in³

Resistivity: ohm.m

Salinity: 800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 85000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	100% condensate	1.262
3910.00	100%W @ 85000 CHL.	21.734
0.00	1500 GIP	0.000

Total Length: 4000.00 ft Total Volume: 22.996 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

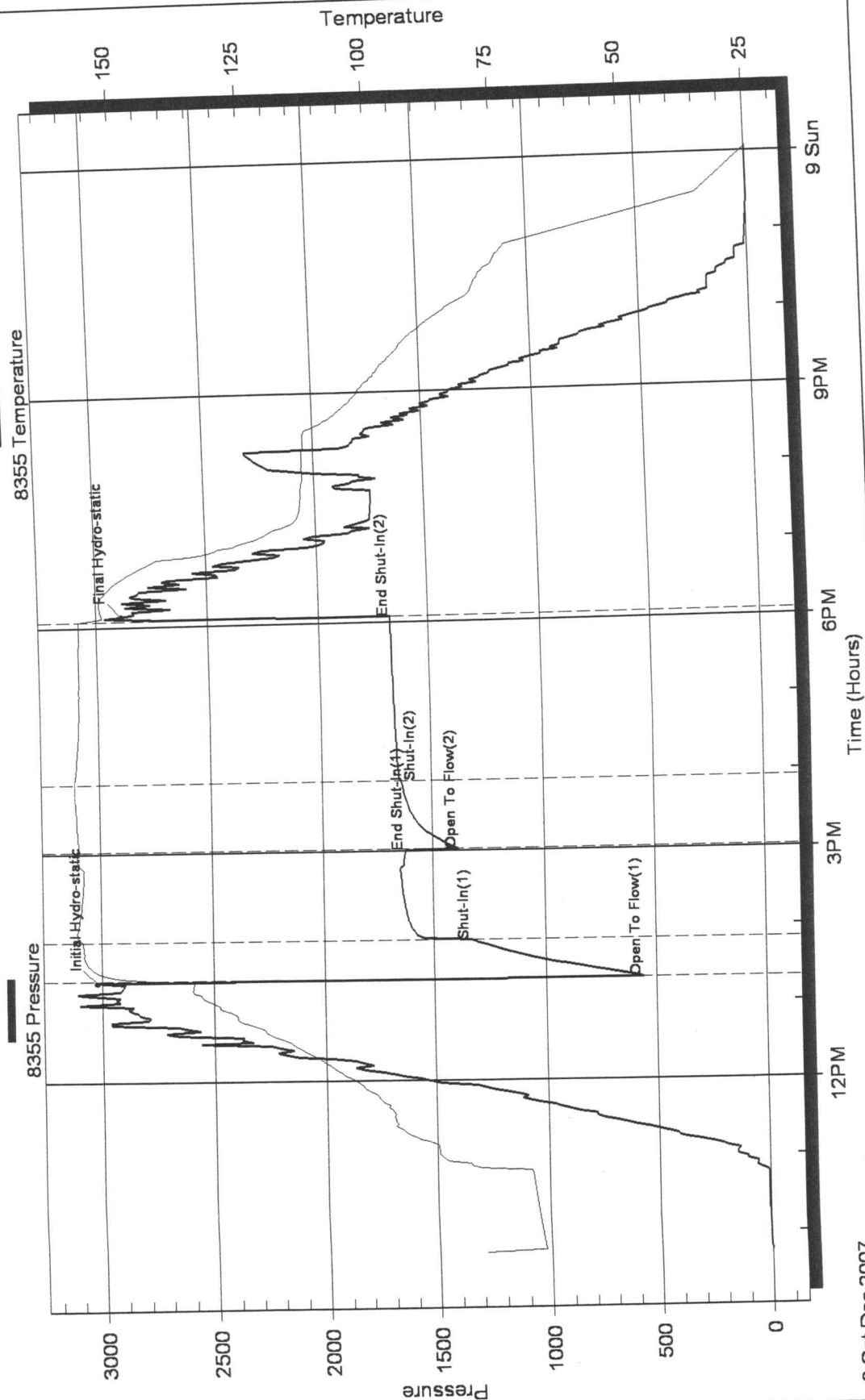
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data 2000ML Water w/ a trace of O&G @ 1600 PSI.

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc**

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Herb Nutter

35 31 39 Stevens KS

Cynthia #35-1

Start Date: 2007.12.11 @ 20:23:46

End Date: 2007.12.12 @ 10:49:25

Job Ticket #: 26353 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

EOG Resources Inc

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Herb Nutter

Cynthia #35-1

35 31 39 Stevens KS

Job Ticket: 26353

DST#: 2

Test Start: 2007.12.11 @ 20:23:46

GENERAL INFORMATION:

Formation: **Lower St. Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:03:55

Time Test Ended: 10:49:25

Test Type: Conventional Straddle

Tester: Chris Hagman

Unit No: 34

Interval: **6070.00 ft (KB) To 6115.00 ft (KB) (TVD)**

Total Depth: 6180.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 3195.00 ft (KB)

3183.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6753 Inside

Press@RunDepth: 1468.26 psig @ 6105.00 ft (KB)

Start Date: 2007.12.11

End Date:

2007.12.12

Start Time: 20:23:46

End Time:

10:49:25

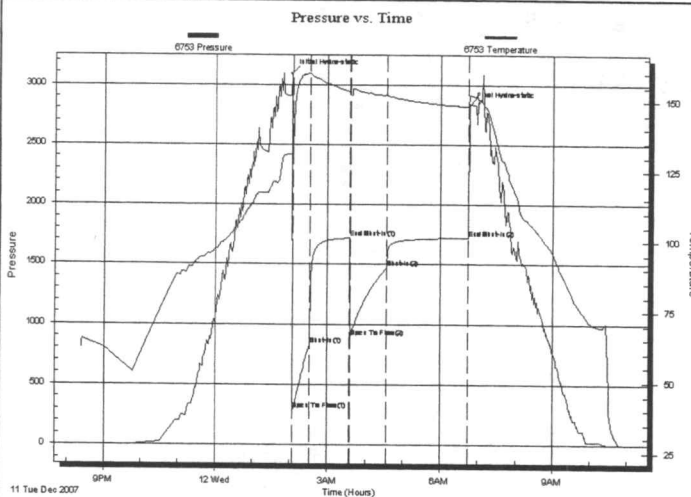
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2007.12.12 @ 02:02:25

Time Off Btm: 2007.12.12 @ 06:45:55

TEST COMMENT: IF BOB 1.5 min. strong steady blow
ISI No blow back
FF BOB 2 min. strong steady blow
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3091.47	131.72	Initial Hydro-static
2	289.05	132.93	Open To Flow (1)
30	829.71	160.09	Shut-In(1)
92	1717.97	153.57	End Shut-In(1)
93	889.30	152.43	Open To Flow (2)
152	1468.26	152.27	Shut-In(2)
283	1721.50	148.38	End Shut-In(2)
284	2831.89	151.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3070.00	100%W	39.79

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources Inc

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Herb Nutter

Cynthia #35-1

35 31 39 Stevens KS

Job Ticket: 26353

DST#: 2

Test Start: 2007.12.11 @ 20:23:46

Tool Information

Drill Pipe:	Length: 5705.00 ft	Diameter: 3.80 inches	Volume: 80.03 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:	30000.00 lb
Drill Collar:	Length: 359.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose:	100000.0 lb
		Total Volume:	81.80 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	78000.00 lb
Depth to Top Packer:	6070.00 ft			Final	88000.00 lb
Depth to Bottom Packer:	6111.00 ft				
Interval between Packers:	41.00 ft				
Tool Length:	141.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			6040.00	
Shut In Tool	5.00			6045.00	
Sampler	3.00			6048.00	
Hydraulic tool	5.00			6053.00	
Jars	5.00			6058.00	
Safety Joint	3.00			6061.00	
Packer	5.00			6066.00	31.00 Bottom Of Top Packer
Packer	4.00			6070.00	
Stubb	1.00			6071.00	
Perforations	1.00			6072.00	
Change Over Sub	1.00			6073.00	
Drill Pipe	31.00			6104.00	
Change Over Sub	1.00			6105.00	
Recorder	0.00	6753	Inside	6105.00	
Perforations	5.00			6110.00	
Blank Off Sub	1.00			6111.00	41.00 Tool Interval
Packer	4.00			6115.00	
Stubb	1.00			6116.00	
Perforations	1.00			6117.00	
Recorder	0.00	8322	Outside	6117.00	
Change Over Sub	1.00			6118.00	
Drill Pipe	62.00			6180.00	69.00 Bottom Packers & Anchor

Total Tool Length: 141.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc

Cynthia #35-1

3817 NW Expressway Ste 500
Oklahoma City OK 73112

35 31 39 Stevens KS

Job Ticket: 26353

DST#: 2

ATTN: Herb Nutter

Test Start: 2007.12.11 @ 20:23:46

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 66.00 sec/qt

Water Loss: 5.59 in³

Resistivity: ohm.m

Salinity: 900.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 125000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3070.00	100%W	39.794

Total Length: 3070.00 ft Total Volume: 39.794 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.081@59F=125,000ppm

Sampler=4000ml W @ 200psi

Pressure vs. Time

