

15-189-22693

1-34s-38w

KCC

APR 27 2010

CONFIDENTIAL



Weatherford®

Completion Systems

DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc.**

3817 NW Expressway Ste. 500 Oklahoma
City Ok. 73112+1483

ATTN: Jackie S.

1/34/38

Kramer 1-1

Start Date: 2010.01.08 @ 10:30:00

End Date: 2010.01.08 @ 20:56:30

Job Ticket #: 37587 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

APR 30 2010

CONSERVATION DIVISION
WICHITA, KS

ALPINE OIL SERVICES CORPORATION
2460, 240 - 4 Avenue S.W. Calgary, AB. T2P 4H4
ph: 263-7800 fax: 264-7260



Weatherford[®]

Completion Systems

DRILL STEM TEST REPORT

EOG Resources Inc.

3817 NW Expressway Ste. 500 Oklahoma City
Ok. 73112+1483

ATTN: Jackie S.

Kramer 1-1

1/34/38

Job Ticket: 37587

DST#: 1

Test Start: 2010.01.08 @ 10:30:00

GENERAL INFORMATION:

Formation: **Lower Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:20

Time Test Ended: 20:56:30

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: **6133.00 ft (KB) To 6235.00 ft (KB) (TVD)**

Total Depth: 6235.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 3185.00 ft (KB)

3174.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6773

Inside

Press@RunDepth: 509.07 psig @ 6135.00 ft (KB)

Start Date: 2010.01.08

End Date:

2010.01.08

Start Time: 10:30:05

End Time:

20:56:30

Capacity: 8000.00 psig

Last Calib.: 2010.01.08

Time On Btm: 2010.01.08 @ 14:47:39

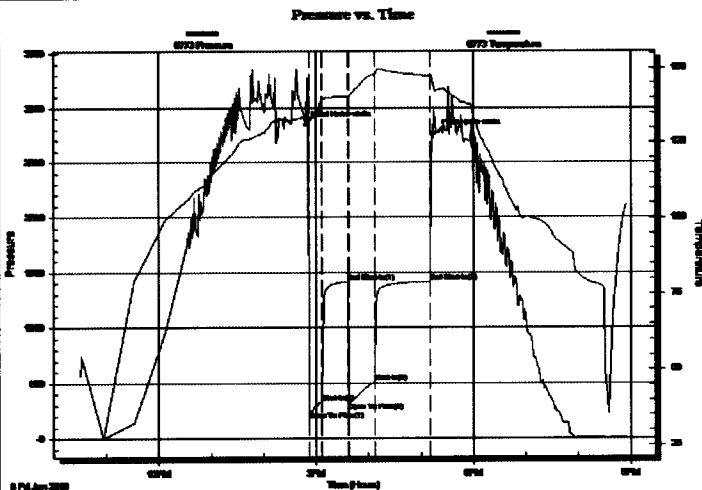
Time Off Btm: 2010.01.08 @ 17:17:00

TEST COMMENT: IF- Good building blow BOB 4min.

ISI- No blow back.

FF- Good building blow, BOB 5.5 min. NO GTS.

FSL- Weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2839.78	133.38	Initial Hydro-static
5	170.43	133.21	Open To Flow (1)
19	324.51	139.20	Shut-In(1)
49	1416.28	140.37	End Shut-In(1)
51	323.09	140.32	Open To Flow (2)
80	509.07	147.52	Shut-In(2)
143	1414.89	147.30	End Shut-In(2)
150	2758.29	142.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	500 GIP	0.00
850.00	5%gas30%mud65%water	9.40

Gas Rates

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

APR 30 2010

Weatherford® Completion Systems

DRILL STEM TEST REPORT

EOG Resources Inc.

Kramer 1-1

3817 NW Expressway Ste. 500 Oklahoma City
Ok. 73112+1483

1/34/38

ATTN: Jackie S.

Job Ticket: 37587

DST#: 1

Test Start: 2010.01.08 @ 10:30:00

GENERAL INFORMATION:

Formation: **Lower Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:20

Time Test Ended: 20:56:30

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: **6133.00 ft (KB) To 6235.00 ft (KB) (TVD)**

Total Depth: 6235.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches -hole Condition: Fair

Reference Elevations: 3185.00 ft (KB)

3174.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8355

Inside

Press@RunDepth: psig @ 6135.00 ft (KB)

Start Date: 2010.01.08

End Date:

2010.01.08

Capacity: 8000.00 psig

Last Calib.:

2010.01.08

Start Time: 10:30:05

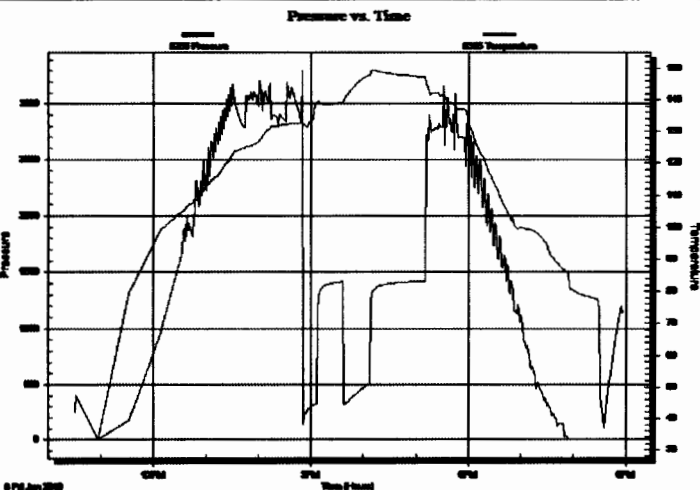
End Time:

20:56:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Good building blow BOB 4min.
IS- No blow back.
FF- Good building blow, BOB 5.5 min. NO GTS.
FS- Weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
-------------	-----------------	--------------	------------

Recovery

Length (ft)	Description	Volume (bbl)
0.00	500 GIP	0.00
850.00	5%gas30%mud65%water	9.40

Gas Rates

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

RECEIVED
KANSAS CORPORATION COMMISSION

APR 30 2010

CONSERVATION DIVISION
WICHITA, KS



Weatherford®
Completion Systems

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources Inc.

Kramer 1-1

3817 NW Expressway Ste. 500 Oklahoma City
Ok. 73112+1483

1/34/38

Job Ticket: 37587

DST#: 1

ATTN: Jackie S.

Test Start: 2010.01.08 @ 10:30:00

Tool Information

Drill Pipe:	Length: 5832.00 ft	Diameter: 3.80 inches	Volume: 81.81 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: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 110000.0 lb
			Total Volume: 83.17 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	6133.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	132.00 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			6104.00	
Shut In Tool	5.00			6109.00	
Sampler	2.00			6111.00	
Hydraulic tool	5.00			6116.00	
Jars	5.00			6121.00	
Safety Joint	3.00			6124.00	
Packer	5.00			6129.00	30.00 Bottom Of Top Packer
Packer	4.00			6133.00	
Stubb	1.00			6134.00	
Perforations	1.00			6135.00	
Recorder	0.00	6773	Inside	6135.00	
Recorder	0.00	8355	Inside	6135.00	
Change Over Sub	1.00			6136.00	
Drill Pipe	93.00			6229.00	
Change Over Sub	1.00			6230.00	
Perforations	2.00			6232.00	
Bullnose	3.00			6235.00	102.00 Bottom Packers & Anchor
Total Tool Length:	132.00				

RECEIVED

APR 30 2010



Weatherford®
Completion Systems

DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc.

Kramer 1-1

3817 NW Expressway Ste. 500 Oklahoma City
Ok. 73112+1483

1/34/38

Job Ticket: 37587

DST#: 1

ATTN: Jackie S.

Test Start: 2010.01.08 @ 10:30:00

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	500 GIP	0.000
850.00	5%gas30%mud65%water	9.400

Total Length: 850.00 ft Total Volume: 9.400 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- trace of mud and gas 2000ML water @ 1400 PSI.

RECEIVED

APR 30 2010



DRILL STEM TEST REPORT

GAS RATES

Weatherford®
Completion Systems

EOG Resources Inc.

3817 NW Expressway Ste. 500 Oklahoma City
Ok. 73112+1483

ATTN: Jackie S.

Kramer 1-1

1/34/38

Job Ticket: 37587

DST#: 1

Test Start: 2010.01.08 @ 10:30:00

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)
		0.00	0.00	0.00

APR 30 2010

DST Test Number: 1

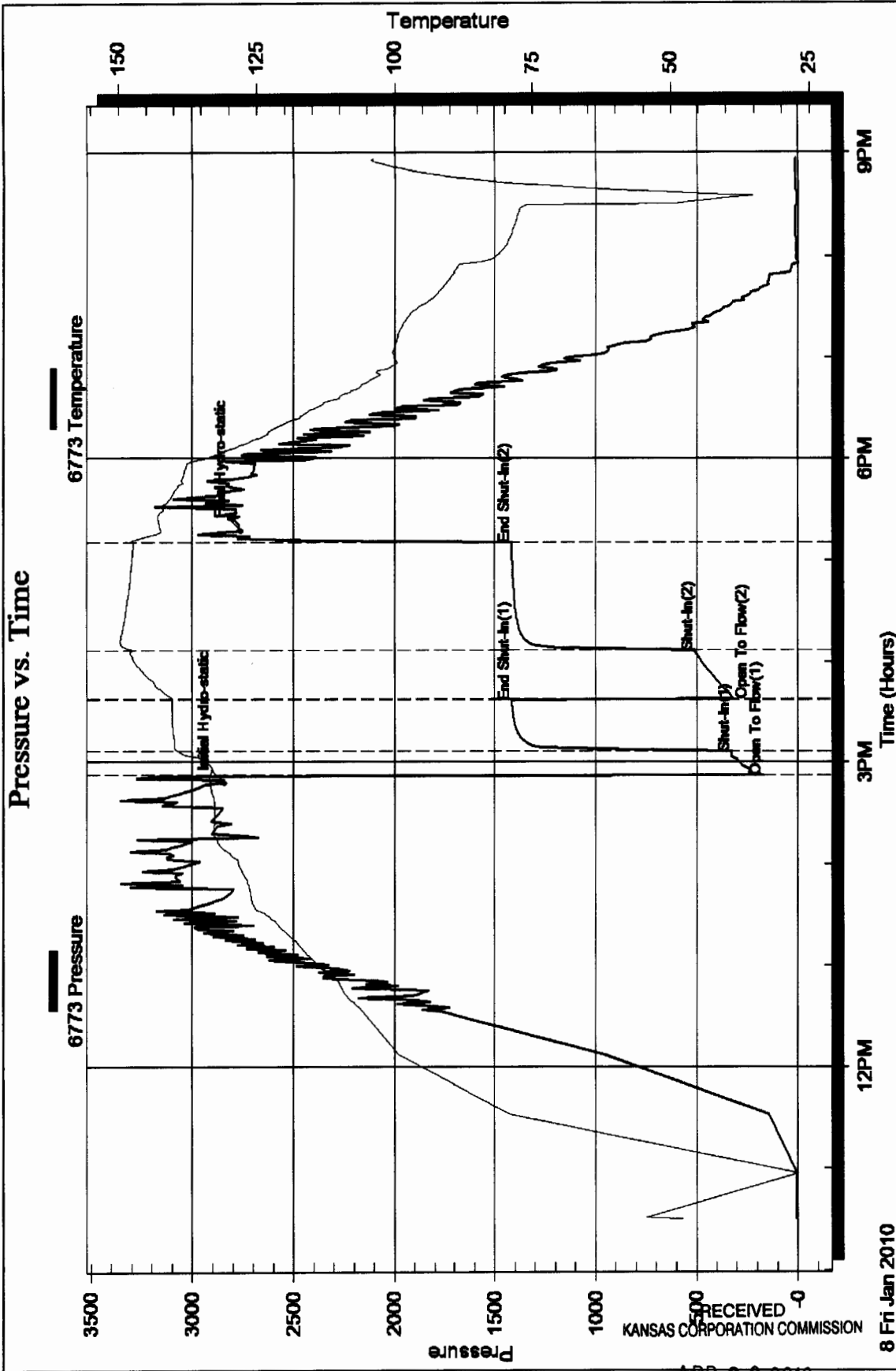
1/34/38

EOG Resources Inc.

Inside

Serial #: 6773

Pressure vs. Time



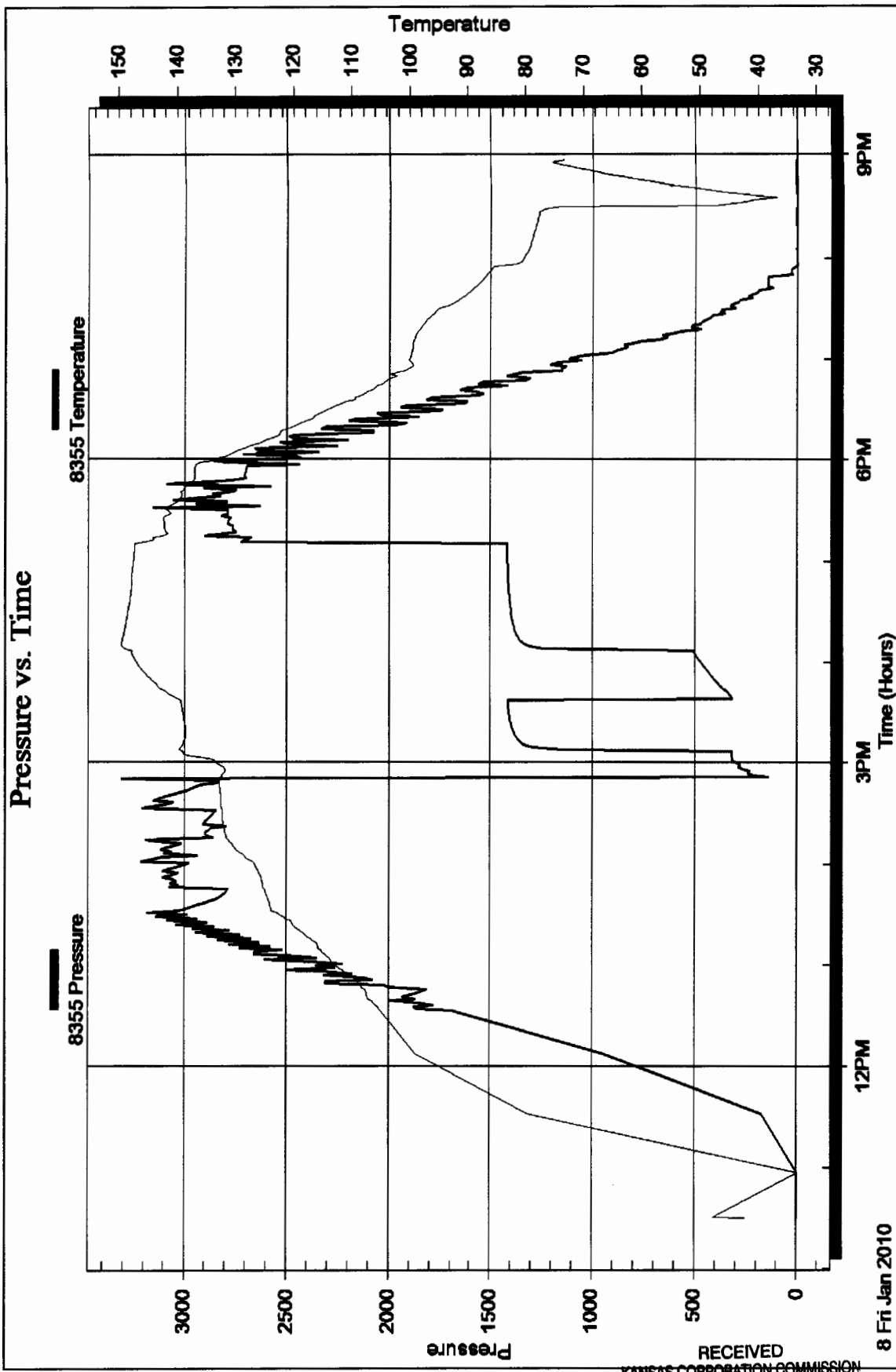
DST Test Number: 1

1/34/38

EOG Resources Inc.

Inside

Serial #: 8355



RECEIVED
KANSAS CORPORATION COMMISSION

APR 30 2010

CONSERVATION DIVISION

Ref. No: 37587

ALPINE OIL SERVICES CORPORATION

Printed: 2010.01.11 @ 08:06:05 Page 8



Weatherford®

Completion Systems

DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc.**

3817 NW Expressway Ste. 500 Oklahoma
City Ok. 73112+1483

ATTN: Jackie S.

1/34/38

Kramer 1-1

Start Date: 2010.01.10 @ 03:30:00

End Date: 2010.01.10 @ 17:56:10

Job Ticket #: 37588 DST #: 2

ALPINE OIL SERVICES CORPORATION

2460, 240 - 4 Avenue S.W. Calgary, AB. T2P 4H4

ph: 263-7800 fax: 264-7260

RECEIVED
KANSAS CORPORATION COMMISSION

Printed: 2010.01.11 @ 08:07:30 Page 1

APR 30 2010

CONSERVATION DIVISION
WICHITA, KS

EOG Resources Inc.

Kramer 1-1

1/34/38

DST # 2

St. Louis

2010.01.10



Weatherford® Completion Systems

DRILL STEM TEST REPORT

EOG Resources Inc.

3817 NW Expressway Ste. 500 Oklahoma City
Ok. 73112+1483

ATTN: Jackie S.

Kramer 1-1

1/34/38

Job Ticket: 37588

DST#: 2

Test Start: 2010.01.10 @ 03:30:00

GENERAL INFORMATION:

Formation: St. Louis

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:55:50

Time Test Ended: 17:56:10

Test Type: Conventional Straddle

Tester: Harley Davidson

Unit No: 33

Interval: 6490.00 ft (KB) To 6527.00 ft (KB) (TVD)

Total Depth: 6593.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches -hole Condition: Fair

Reference Elevations: 3185.00 ft (KB)

3174.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6773

Inside

Press@RunDepth: 643.55 psig @ 6491.00 ft (KB)

Start Date: 2010.01.10

End Date:

2010.01.10

Start Time: 03:30:05

End Time:

17:56:10

Capacity: 8000.00 psig

Last Calib.: 2010.01.10

Time On Btm: 2010.01.10 @ 07:52:30

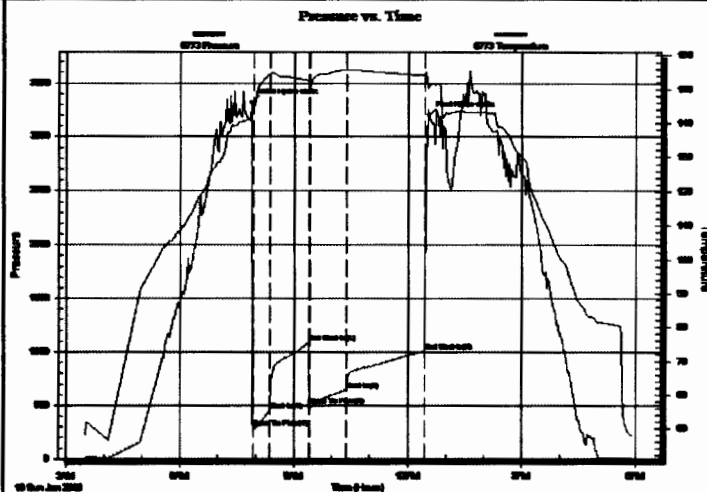
Time Off Btm: 2010.01.10 @ 12:32:30

TEST COMMENT: F- Strong blow BOB ASAO, GTS 15min. TSTM.

IS- Strong blow back.

FF- Strong blow BOB, GTS, ASAO.

FS- Strong blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3317.81	141.36	Initial Hydro-static
4	296.15	144.92	Open To Flow (1)
30	450.25	154.45	Shut-In(1)
90	1089.45	152.57	End Shut-In(1)
92	496.95	151.38	Open To Flow (2)
150	643.55	155.63	Shut-In(2)
274	1008.70	154.10	End Shut-In(2)
280	3204.79	151.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2109.00	50%gas 50%condinsate	26.22
1265.00	30%gas 20%oil 50%mud	17.74

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	10.00	9.13
Last Gas Rate	0.13	25.00	14.75
Max. Gas Rate	0.13	25.00	14.75

RECEIVED

ALPINE OIL SERVICES CORPORATION

Ref. No: 37588

KANSAS CORPORATION

Printed: 2010.01.11 @ 08:07:30 Page 2

APR 30 2010

CONSERVATION DIVISION
WICHITA, KS



Weatherford®
Completion Systems

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources Inc.

Kramer 1-1

3817 NW Expressway Ste. 500 Oklahoma City
Ok. 73112+1483

1/34/38

Job Ticket: 37588

DST#: 2

ATTN: Jackie S.

Test Start: 2010.01.10 @ 03:30:00

Tool Information

Drill Pipe:	Length: 6101.00 ft	Diameter: 3.80 inches	Volume: 85.58 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: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose:	110000.0 lb
		Total Volume:	87.39 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	6490.00 ft			Final	83000.00 lb
Depth to Bottom Packer:	6527.00 ft				
Interval between Packers:	37.00 ft				
Tool Length:	138.00 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			6461.00	
Shut In Tool	5.00			6466.00	
Sampler	2.00			6468.00	
Hydraulic tool	5.00			6473.00	
Jars	5.00			6478.00	
Safety Joint	3.00			6481.00	
Packer	5.00			6486.00	30.00 Bottom Of Top Packer
Packer	4.00			6490.00	
Stubb	1.00			6491.00	
Recorder	0.00	6773	Inside	6491.00	
Perforations	35.00			6526.00	
Blank Off Sub	1.00			6527.00	37.00 Tool Interval
Packer	4.00			6531.00	
Stubb	1.00			6532.00	
Recorder	0.00	8355	Outside	6532.00	
Change Over Sub	1.00			6533.00	
Drill Pipe	62.00			6595.00	
Bullnose	3.00			6598.00	71.00 Bottom Packers & Anchor

Total Tool Length: 138.00

APR 30 2010



Weatherford®
Completion Systems

DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc.

Kramer 1-1

3817 NW Expressway Ste. 500 Oklahoma City
Ok. 73112+1483

1/34/38

Job Ticket: 37588

DST#: 2

ATTN: Jackie S.

Test Start: 2010.01.10 @ 03:30:00

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: 62.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.99 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2109.00	50%gas 50%condinsate	26.222
1265.00	30%gas20%oil50%mud	17.745

Total Length: 3374.00 ft Total Volume: 43.967 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- 500ML condinsate 500ML mud 15 CFD gas with trace of water. @ 1000 PSI.

RECEIVED

APR 30 2010



Weatherford®
Completion Systems

DRILL STEM TEST REPORT

GAS RATES

EOG Resources Inc.

Kramer 1-1

3817 NW Expressway Ste. 500 Oklahoma City
Ok. 73112+1483

1/34/38

Job Ticket: 37588

DST#: 2

ATTN: Jackie S.

Test Start: 2010.01.10 @ 03:30:00

Gas Rates Information

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

Gas Rates Table

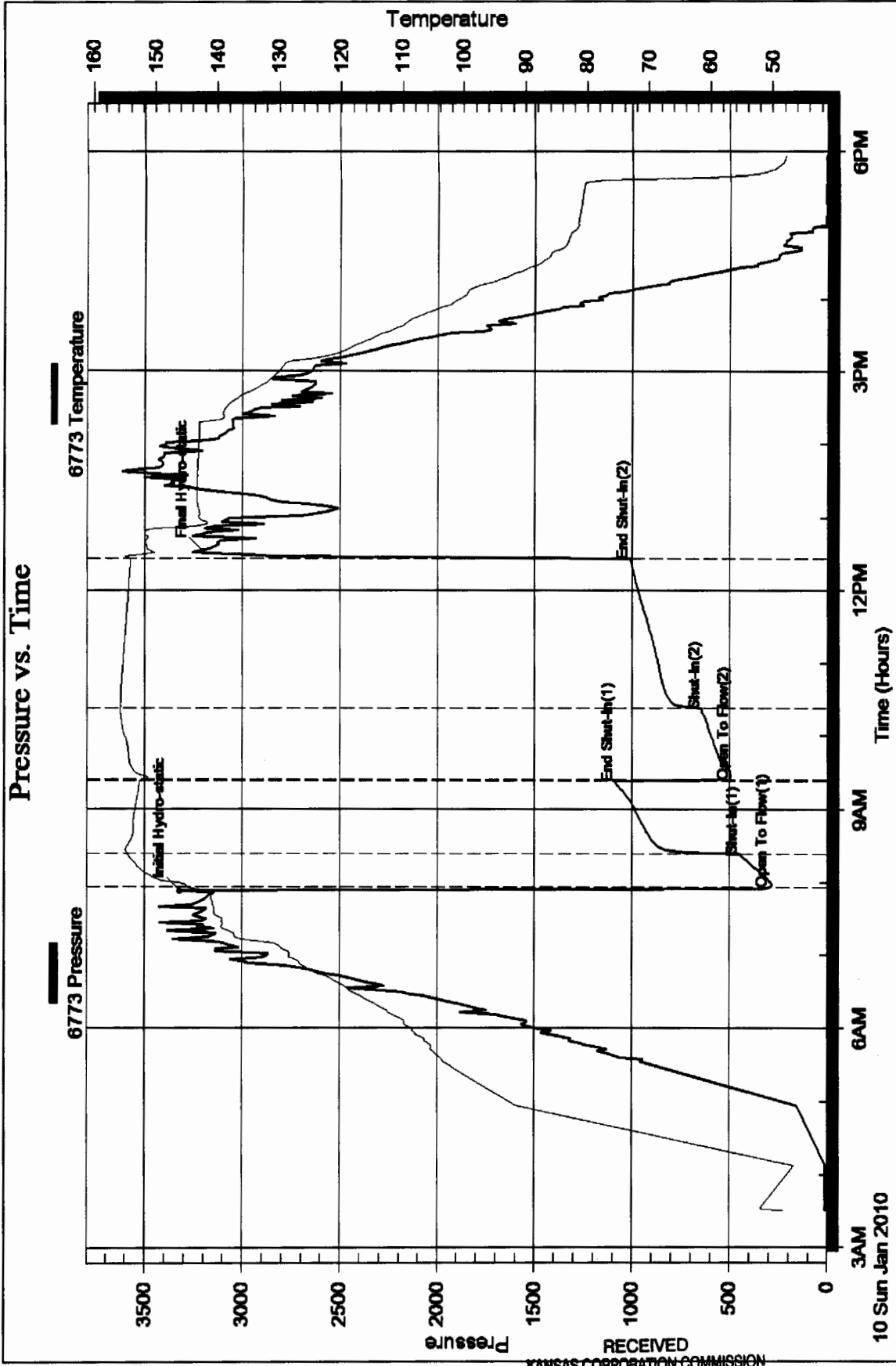
Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
2	10	0.13	10.00	9.13
2	20	0.13	10.00	9.13
2	30	0.13	10.00	9.13
2	40	0.13	15.00	11.00
2	50	0.13	20.00	12.88
2	60	0.13	25.00	14.75

RECEIVED
KANSAS CORPORATION COMMISSION

APR 30 2010

CONSERVATION DIVISION
WICHITA, KS

Pressure vs. Time



RECEIVED
KANSAS CORPORATION COMMISSION

APR 30 2010

CONSERVATION DIVISION
WICHITA, KS

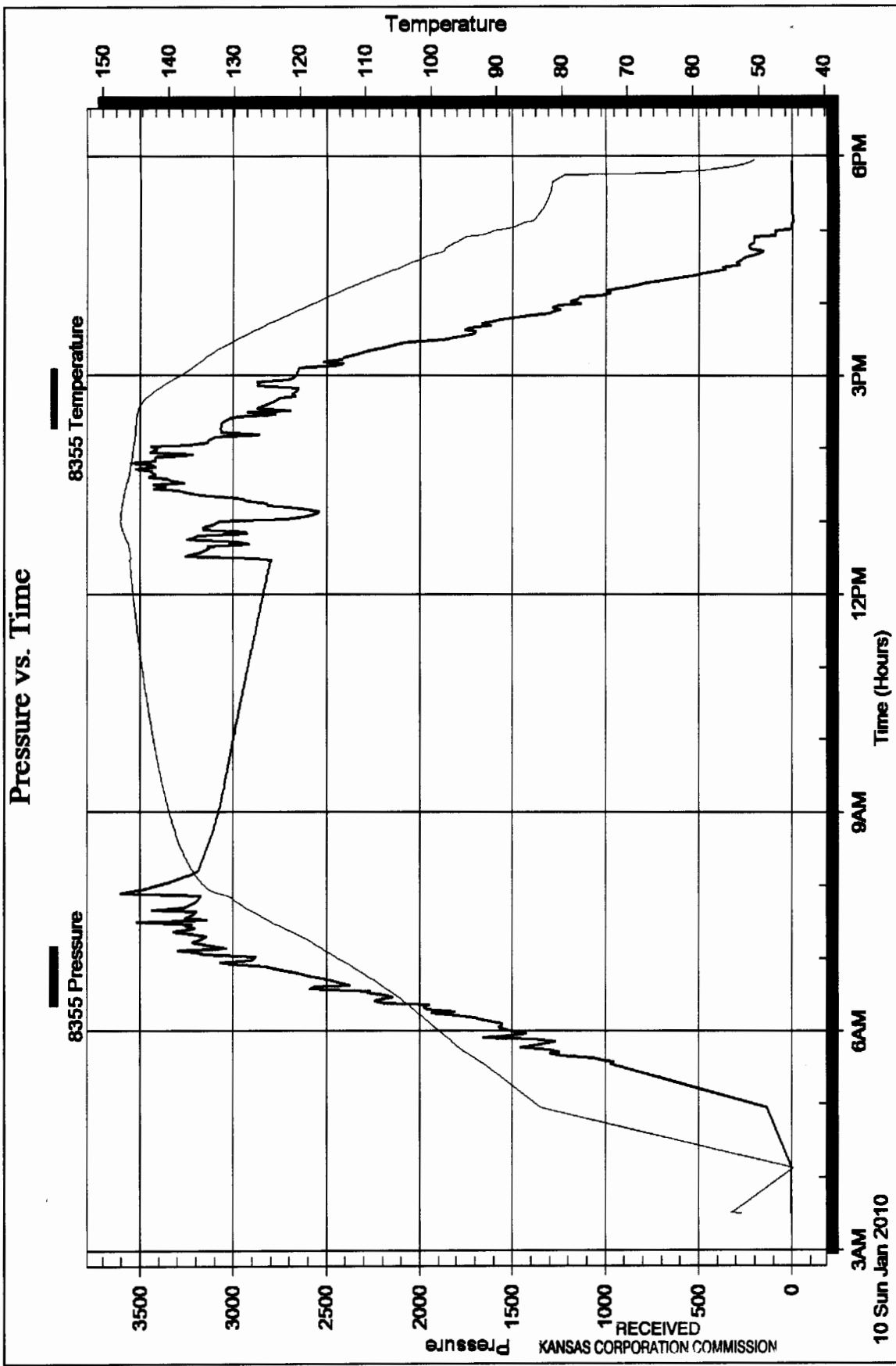
DST Test Number: 2

1/34/38

EOG Resources Inc.

Outside

Serial #: 8355



APR 30 2010

CONSERVATION DIVISION
WICHITA, KS

Ref. No: 37588

ALPINE OIL SERVICES CORPORATION

Printed: 2010.01.11 @ 08:07:32 Page 8