



Weatherford® Completion Systems

DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc.**

3817 NW Expressway Oklahoma City Ok.
73112+1483

ATTN: Mike

4/25/32

Brookover 4-1

Start Date: 2010.09.02 @ 09:15:00

End Date: 2010.09.02 @ 20:32:25

Job Ticket #: 40278 DST #: 1

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ALPINE OIL SERVICES CORPORATION
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Test Start: 2010.09.02 @ 09:15:00

GENERAL INFORMATION:

Formation: **Chester Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:26:40

Time Test Ended: 20:32:25

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: **4860.00 ft (KB) To 4894.00 ft (KB) (TVD)**

Total Depth: 4894.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2893.00 ft (KB)

2874.00 ft (CF)

KB to GR/CF: 19.00 ft

Serial #: 6772

Inside

Press@RunDepth: 763.92 psig @ 4862.00 ft (KB)

Start Date: 2010.09.02

End Date:

2010.09.02

Start Time: 09:15:05

End Time:

20:32:25

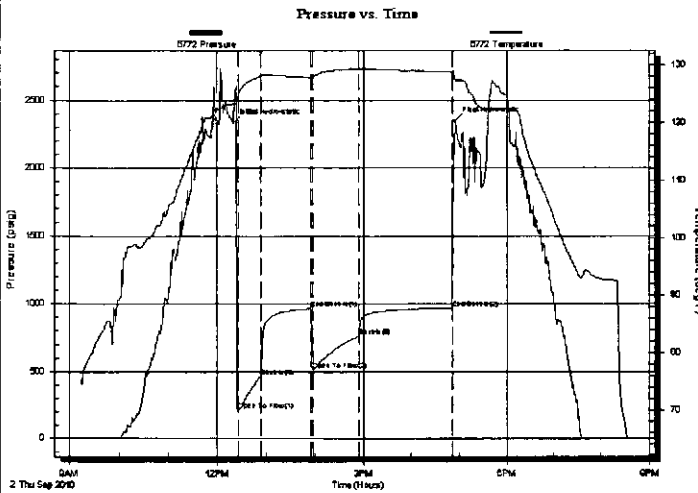
Capacity: 8000.00 psig

Last Calib.: 2010.09.02

Time On Btm: 2010.09.02 @ 12:20:40

Time Off Btm: 2010.09.02 @ 16:55:30

TEST COMMENT: IF- Strong blow BOB 1.5 min. No GTS.
IS- Strong blow back. GTS.
FF- Strong blow BOB GTS ASAO. Gas to small to measure.
FS- Strong blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2335.04	123.22	Initial Hydro-static
6	214.69	125.08	Open To Flow (1)
33	465.89	127.98	Shut-in(1)
95	965.28	127.81	End Shut-in(1)
96	516.31	127.68	Open To Flow (2)
154	763.92	129.25	Shut-in(2)
271	964.08	128.70	End Shut-in(2)
275	2347.46	127.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2800.00	80% oil 20%gas	35.92

Gas Rates

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

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TOOL DIAGRAM

EOG Resources Inc.

Brookover 4-1

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4/25/32

Job Ticket: 40278

DST#: 1

ATTN: Mike

Test Start: 2010.09.02 @ 09:15:00

Tool Information

Drill Pipe:	Length: 4467.00 ft	Diameter: 3.80 inches	Volume: 62.66 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: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 64.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4860.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 7.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4831.00	
Shut In Tool	5.00			4836.00	
Sampler	2.00			4838.00	
Hydraulic tool	5.00			4843.00	
Jars	5.00			4848.00	
Safety Joint	3.00			4851.00	
Packer	5.00			4856.00	30.00 Bottom Of Top Packer
Packer	4.00			4860.00	
Stubb	1.00			4861.00	
Perforations	1.00			4862.00	
Recorder	0.00	6772	Inside	4862.00	
Recorder	0.00	8355	Inside	4862.00	
Perforations	29.00			4891.00	
Bullnose	3.00			4894.00	34.00 Bottom Packers & Anchor

Total Tool Length: 64.00

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FLUID SUMMARY

EOG Resources Inc. **Brookover 4-1**
 3817 NW Expressway Oklahoma City Ok. **4/25/32**
 73112+1483 Job Ticket: 40278 **DST#: 1**
 ATTN: Mike Test Start: 2010.09.02 @ 09:15:00

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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.00 cm ³	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
2800.00	80% oil 20%gas	35.915

Total Length: 2800.00 ft Total Volume: 35.915 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Sampler Data- 950 PSI 2000 ML oil 14CFD gas

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GAS RATES

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ATTN: Mike

Brookover 4-1
4/25/32
Job Ticket: 40278 **DST#: 1**
Test Start: 2010.09.02 @ 09:15:00

Gas Rates Information

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

Gas Rates Table

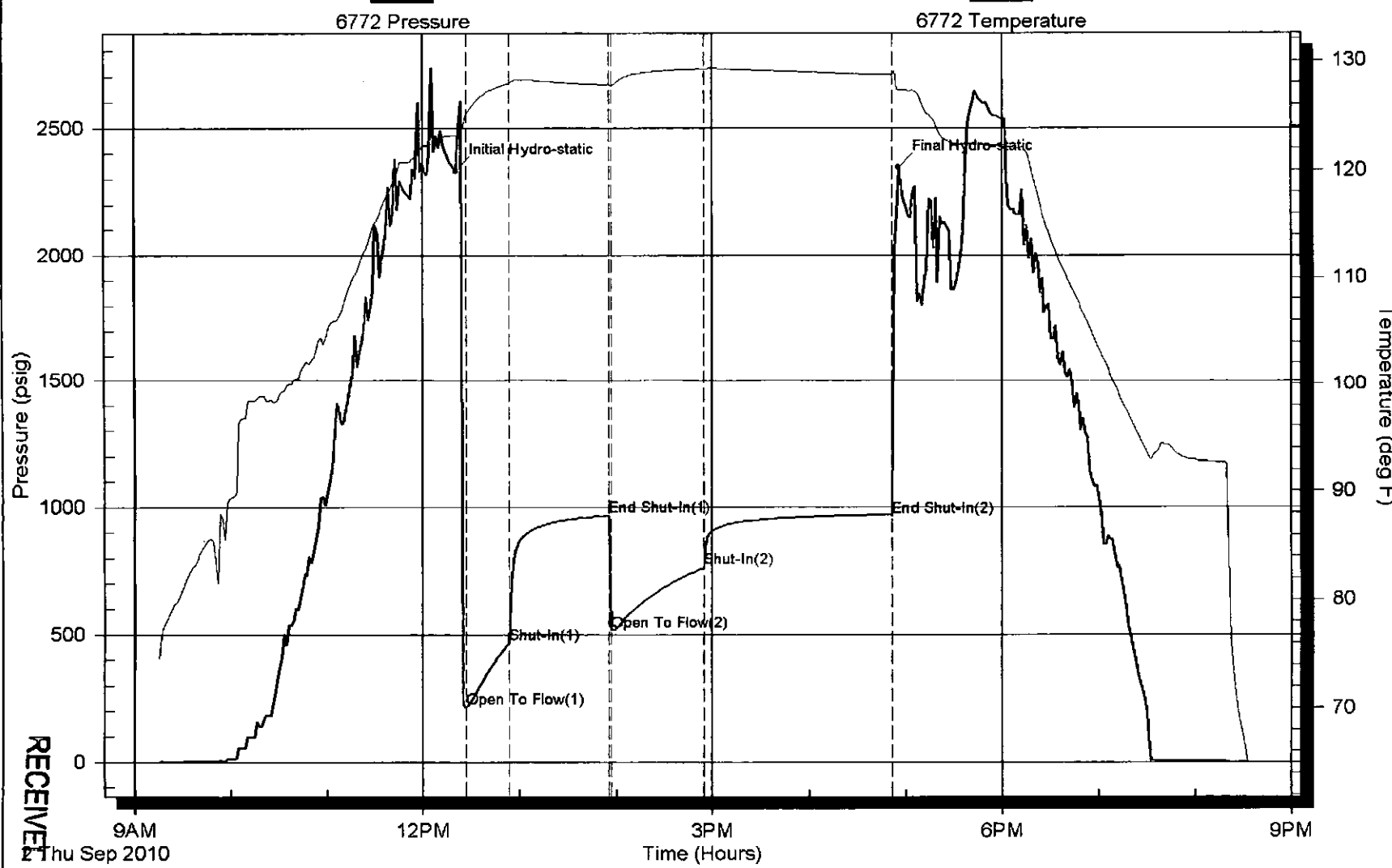
Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
		0.00	0.00	0.00

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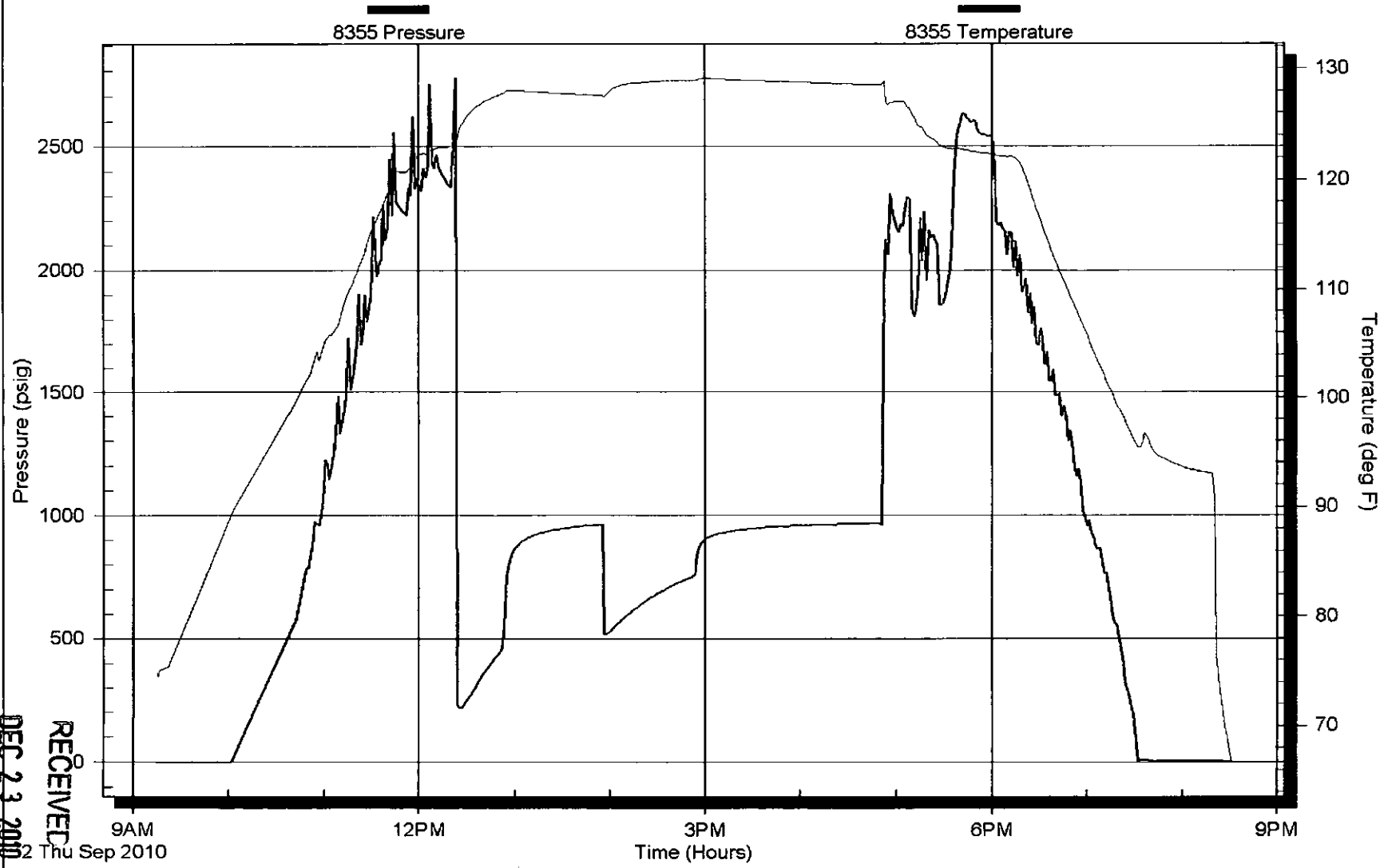
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Pressure vs. Time



Pressure vs. Time



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