

KCC
OCT 21 2010
CONFIDENTIAL



Weatherford® Completion Systems

DRILL STEM TEST REPORT

Prepared For: **EOG Resources**

3817 NW EXPWY STE 500
Oklahoma City Ok, 73112

ATTN: Jackie Sessions

8/25s/32w

Brookover 8#2

Start Date: 2010.07.04 @ 03:00:51

End Date: 2010.07.04 @ 15:17:21

Job Ticket #: 37366 DST #: 1

RECEIVED
OCT 28 2010
KCC WICHITA

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



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Completion Systems

DRILL STEM TEST REPORT

EOG Resources

3817 NW EXPWY STE 500
Oklahoma City Ok, 73112

ATTN: Jackie Sessions

Brookover 8#2

8/25s/32w

Job Ticket: 37366

DST#: 1

Test Start: 2010.07.04 @ 03:00:51

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:04:21

Time Test Ended: 15:17:21

Interval: **4434.00 ft (KB) To 4525.00 ft (KB) (TVD)**

Total Depth: 4561.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches -hole Condition: Fair

Test Type: Conventional Straddle

Tester: Mike Slemp

Unit No: 28

Reference Elevations: 2884.00 ft (KB)

2872.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8678

Inside

Press@RunDepth: 677.03 psig @ 4436.00 ft (KB)

Start Date: 2010.07.04

End Date:

2010.07.04

Capacity: 8000.00 psig

Last Calib.: 2010.07.04

Start Time: 03:00:52

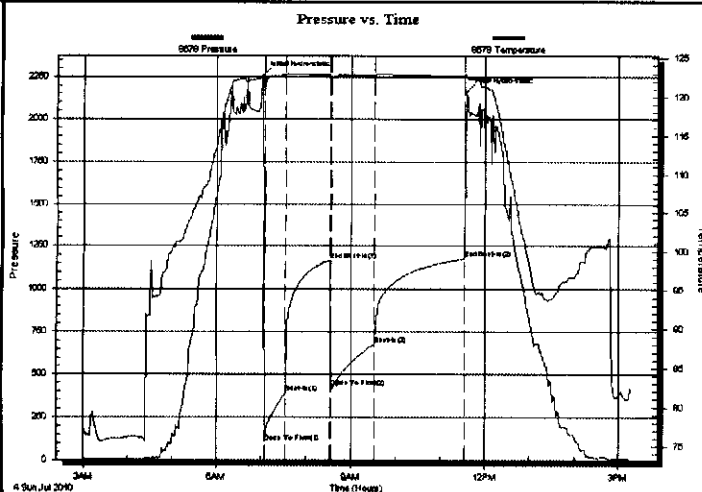
End Time:

15:17:21

Time On Btm: 2010.07.04 @ 07:02:36

Time Off Btm: 2010.07.04 @ 11:35:36

TEST COMMENT: IF- BOB in 3 min
IS- No blow back
FF- BOB in 5 min
FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2256.54	122.46	Initial Hydro-static
2	107.30	121.32	Open To Flow (1)
30	389.59	122.77	Shut-In(1)
90	1170.09	122.81	End Shut-In(1)
91	422.63	122.53	Open To Flow (2)
149	677.03	122.81	Shut-In(2)
270	1177.11	122.67	End Shut-In(2)
273	2163.00	122.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	WCM50%w ater50% mud	0.76
1282.00	100%w ater	16.02

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Oklahoma City Ok, 73112

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Job Ticket: 37366

DST#: 1

ATTN: Jackie Sessions

Test Start: 2010.07.04 @ 03:00:51

GENERAL INFORMATION:

Formation: Altamont

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:04:21

Time Test Ended: 15:17:21

Test Type: Conventional Straddle

Tester: Mike Slomp

Unit No: 28

Interval: 4434.00 ft (KB) To 4525.00 ft (KB) (TVD)

Reference Elevations: 2884.00 ft (KB)

Total Depth: 4561.00 ft (KB) (TVD)

2872.00 ft (CF)

Hole Diameter: 7.78 inches - Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8677

Outside

Press@RunDepth: psig @ 4531.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.04

End Date:

2010.07.04

Last Calib.:

2010.07.04

Start Time: 03:10:31

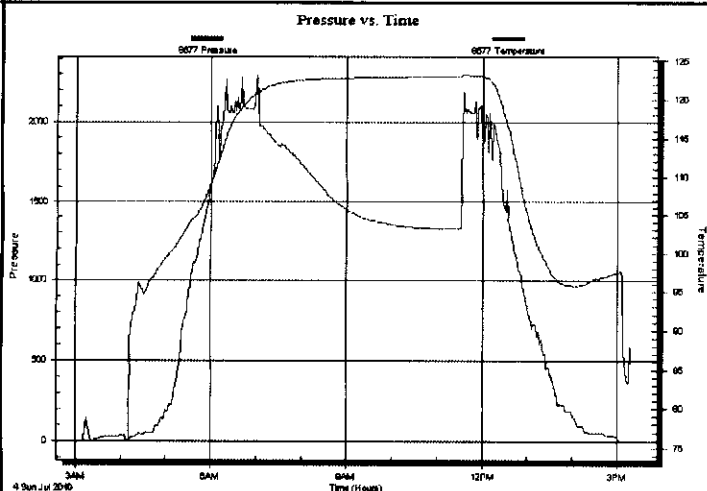
End Time:

15:17:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- BOB in 3 min
IS- No blow back
FF- BOB in 5 min
FS- No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
155.00	WCM50%w ater50%mud	0.76
1282.00	100%w ater	16.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources

Brookover 8#2

3817 NW EXPWY STE 500
Oklahoma City Ok, 73112

8/25s/32w

Job Ticket: 37366

DST#: 1

ATTN: Jackie Sessions

Test Start: 2010.07.04 @ 03:00:51

Tool Information

Drill Pipe:	Length: 4044.00 ft	Diameter: 3.80 inches	Volume: 56.73 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: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 100000.0 lb
			Total Volume: 58.55 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4434.00 ft			Final 96000.00 lb
Depth to Bottom Packer:	4525.00 ft			
Interval between Packers:	91.00 ft			
Tool Length:	162.00 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			4405.00	
Shut In Tool	5.00			4410.00	
Sampler	3.00			4413.00	
Hydraulic tool	5.00			4418.00	
Jars	5.00			4423.00	
Safety Joint	2.00			4425.00	
Packer	5.00			4430.00	30.00 Bottom Of Top Packer
Packer	4.00			4434.00	
Stubb	1.00			4435.00	
Perforations	1.00			4436.00	
Recorder	0.00	8678	Inside	4436.00	
Perforations	25.00			4461.00	
Drill Pipe	62.00			4523.00	
Change Over Sub	1.00			4524.00	
Blank Off Sub	1.00			4525.00	91.00 Tool Interval
Packer	4.00			4529.00	
Stubb	1.00			4530.00	
Change Over Sub	1.00			4531.00	
Recorder	0.00	8677	Outside	4531.00	
Drill Pipe	31.00			4562.00	
Change Over Sub	1.00			4563.00	
Bullnose	3.00			4566.00	41.00 Bottom Packers & Anchor
Total Tool Length:		162.00			



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DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources

Brookover 8#2

3817 NW EXPWY STE 500
Oklahoma City Ok, 73112

8/25s/32w

Job Ticket: 37366

DST#: 1

ATTN: Jackie Sessions

Test Start: 2010.07.04 @ 03:00:51

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: 75000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.17 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	WCM50%w ater50%mud	0.762
1282.00	100%w ater	16.025

Total Length: 1437.00 ft Total Volume: 16.787 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler- 200PSI 4000ml Water



DRILL STEM TEST REPORT

GAS RATES

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EOG Resources

3817 NW EXPWY STE 500
Oklahoma City Ok, 73112

ATTN: Jackie Sessions

Brookover 8#2

8/25s/32w

Job Ticket: 37366

DST#: 1

Test Start: 2010.07.04 @ 03:00:51

Gas Rates Information

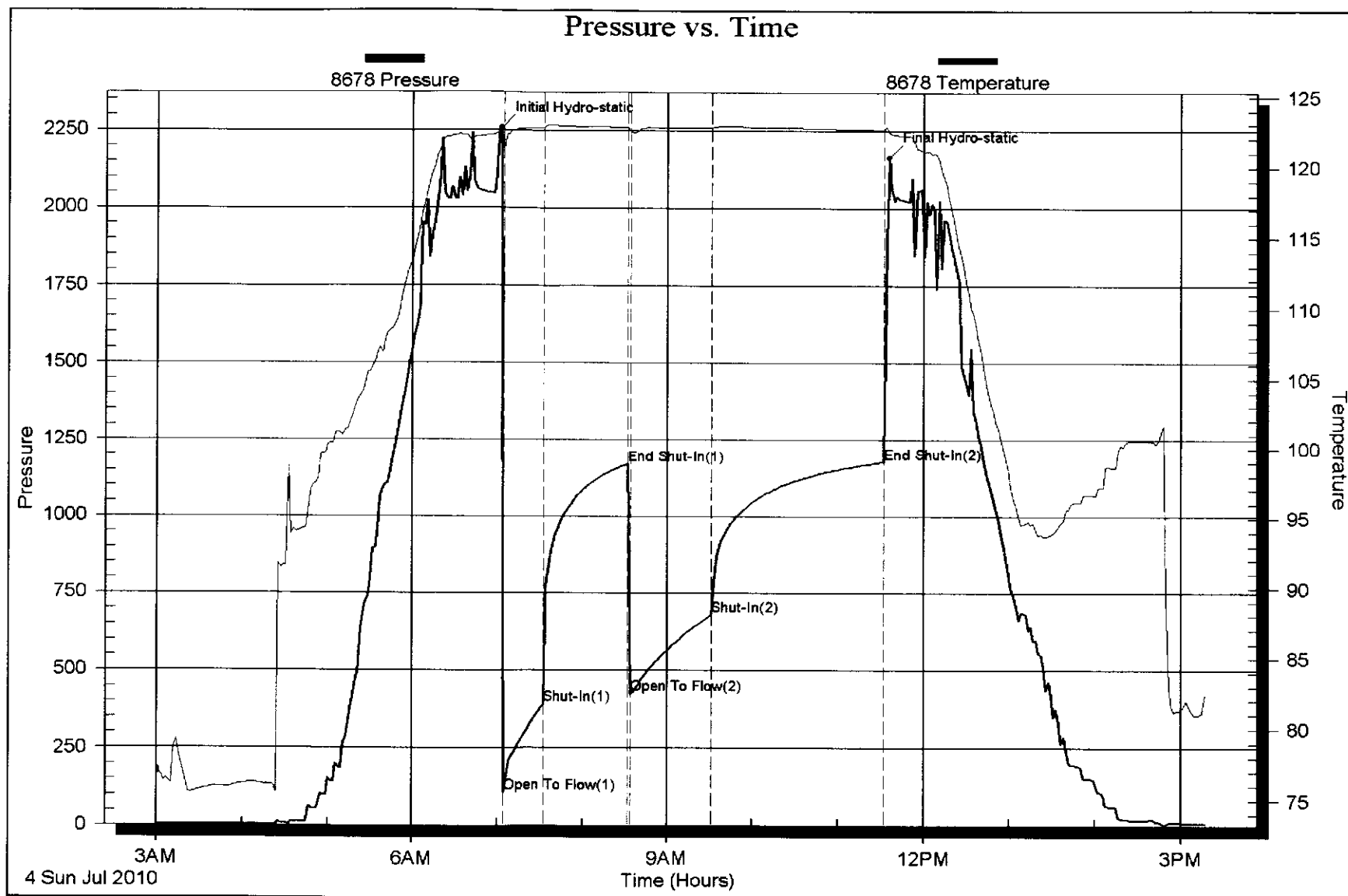
Temperature: 59 deg C

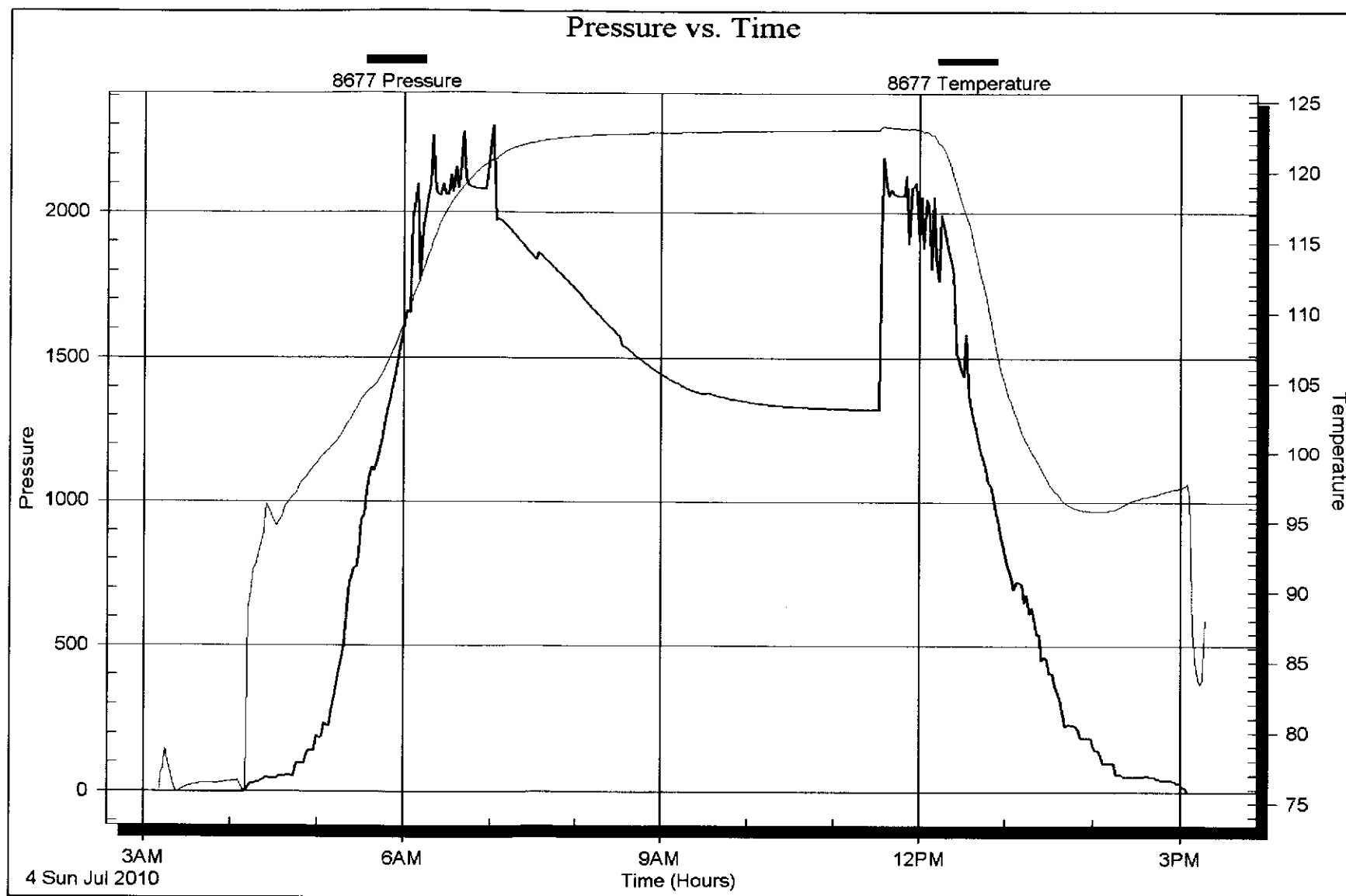
Relative Density: 0.65

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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Prepared For: **EOG Resources**

3817 NW EXPWY STE 500
Oklahoma City Ok, 73112

ATTN: Jackie Sessions

8/25s/32w

Brookover 8#2

Start Date: 2010.07.05 @ 08:45:01

End Date: 2010.07.05 @ 21:30:01

Job Ticket #: 37367 DST #: 2

RECEIVED
OCT 28 2010
KCC WICHITA

ALPINE OIL SERVICES CORPORATION
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ph: 263-7800 fax: 264-7260



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EOG Resources

Brookover 8#2

3817 NW EXPWY STE 500
Oklahoma City Ok, 73112

8/25s/32w

Job Ticket: 37367

DST#: 2

ATTN: Jackie Sessions

Test Start: 2010.07.05 @ 08:45:01

GENERAL INFORMATION:

Formation: **Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:18:46

Time Test Ended: 21:30:01

Test Type: Conventional Bottom Hole

Tester: Mike Siemp

Unit No: 28

Interval: **4772.00 ft (KB) To 4863.00 ft (KB) (TVD)**

Reference Elevations: 2884.00 ft (KB)

Total Depth: 4863.00 ft (KB) (TVD)

2872.00 ft (CF)

Hole Diameter: 7.78 inches -hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8677

Inside

Press@RunDepth: 832.85 psig @ 4774.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.05

End Date: 2010.07.05

Last Calib.: 2010.07.05

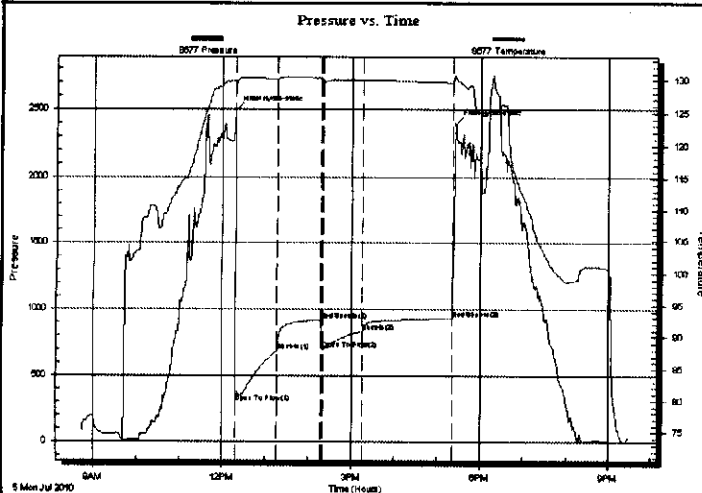
Start Time: 08:45:02

End Time: 21:30:01

Time On Btm: 2010.07.05 @ 12:17:46

Time Off Btm: 2010.07.05 @ 17:25:01

TEST COMMENT: IF- BOB in 2 min GTS at shut in
ISI-BOB blow back in 15 min
FF- BOB ASAO GTS ASAO TSTM
FSI-BOB in 5 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2495.84	129.91	Initial Hydro-static
1	291.47	129.22	Open To Flow (1)
59	684.18	130.19	Shut-In(1)
120	919.09	130.37	End Shut-In(1)
122	698.88	130.11	Open To Flow (2)
178	832.85	129.97	Shut-In(2)
304	929.14	129.64	End Shut-In(2)
308	2391.82	130.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2302.00	GCO 50%gas40%oil10%mud	28.92

Gas Rates

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

Brookover 8#2

3817 NW EXPWY STE 500
Oklahoma City Ok, 73112

8/25s/32w

Job Ticket: 37367

DST#: 2

ATTN: Jackie Sessions

Test Start: 2010.07.05 @ 08:45:01

GENERAL INFORMATION:

Formation: **Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:18:46

Time Test Ended: 21:30:01

Test Type: Conventional Bottom Hole

Tester: Mike Slemp

Unit No: 28

Interval: 4772.00 ft (KB) To 4863.00 ft (KB) (TVD)

Total Depth: 4863.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches - Hole Condition: Fair

Reference Elevations: 2884.00 ft (KB)

2872.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8678

Inside

Press@RunDepth: psig @ 4774.00 ft (KB)

Start Date: 2010.07.05

End Date:

2010.07.05

Capacity: 8000.00 psia

2010.07.05

Start Time: 08:50:01

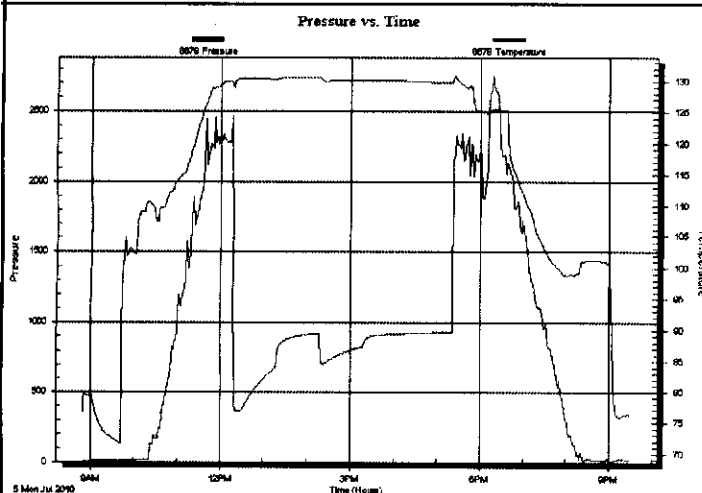
End Time:

21:30:00

Time On Btm:

Time Off Btm:

TEST COMMENT: FF- BOB in 2 min GTS at shut in
ISL-BOB blow back in 15 min
FF- BOB ASAO GTS ASAO TSTM
ESI-BOB in 5 min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2302.00	GCO 50%gas40%oil10%mud	28.92

Gas Rates

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

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Brookover 8#2

3817 NW EXPWY STE 500
Oklahoma City Ok, 73112

8/25s/32w

Job Ticket: 37367

DST#: 2

ATTN: Jackie Sessions

Test Start: 2010.07.05 @ 08:45:01

Tool Information

Drill Pipe:	Length: 4380.00 ft	Diameter: 3.80 inches	Volume: 61.44 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: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume:	63.26 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4772.00 ft			Final 100000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	121.00 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			4743.00	
Shut In Tool	5.00			4748.00	
Sampler	3.00			4751.00	
Hydraulic tool	5.00			4756.00	
Jars	5.00			4761.00	
Safety Joint	2.00			4763.00	
Packer	5.00			4768.00	30.00 Bottom Of Top Packer
Packer	4.00			4772.00	
Stubb	1.00			4773.00	
Perforations	1.00			4774.00	
Recorder	0.00	8678	Inside	4774.00	
Recorder	0.00	8677	Inside	4774.00	
Perforations	22.00			4796.00	
Change Over Sub	1.00			4797.00	
Drill Pipe	62.00			4859.00	
Change Over Sub	1.00			4860.00	
Bullnose	3.00			4863.00	91.00 Bottom Packers & Anchor
Total Tool Length:		121.00			



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Job Ticket: 37367

DST#: 2

ATTN: Jackie Sessions

Test Start: 2010.07.05 @ 08:45:01

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.99 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2302.00	GCO 50%gas40%oil10%mud	28.920

Total Length: 2302.00 ft

Total Volume: 28.920 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler-600psi 2000MLoil 4.4cu/ftgas



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GAS RATES

EOG Resources

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3817 NW EXPWY STE 500
Oklahoma City Ok, 73112

8/25s/32w

Job Ticket: 37367

DST#: 2

ATTN: Jackie Sessions

Test Start: 2010.07.05 @ 08:45:01

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

