

**CONFIDENTIAL**

**WELL COMPLETION FORM**

**ORIGINAL**

Form must be Typed

1/4/13

OPERATOR: License # 5278 **KCC**

API NO. 15- 055-22081-00-00

Name: EOG Resources, Inc. **JAN 04 2011**

Spot Description: \_\_\_\_\_

Address 1: 3817 NW Expressway, Suite 500 **CONFIDENTIAL**

S2 - SE - NE - SE Sec. 4 Twp. 25 S. R. 32  East  West

Address 2: Suite 500

1422 1400 Feet from  North /  South Line of Section

City Oklahoma City State OK Zip: 73112 + \_\_\_\_\_

214 360 Feet from  East /  West Line of Section

Contact Person: DAWN ROCKEL **RECEIVED**

Footages **GPS-KCC-DLS** Calculated from Nearest Outside Section Corner:

Phone ( 405 ) 246-3226 **JAN 05 2011**

NE  NW  SE  SW

CONTRACTOR: License # 34000 **KCC WICHITA**

County FINNEY

Name: KENAI MID-CONTINENT, INC.

Lease Name BROOKOVER Well # 4 #2

Wellsite Geologist: \_\_\_\_\_

Field Name WILDCAT

Purchaser: N/A

Producing Formation MISSISSIPPIAN

Designate Type of Completion

Elevation: Ground 2869' Kelley Bushing 2881'

New Well  Re-Entry  Workover

Total Depth 5100 Plug Back Total Depth N/A

Oil  SWD  SIOW

Amount of Surface Pipe Set and Cemented at 1728 Feet

Gas  ENHR  SIGW

Multiple Stage Cementing Collar Used?  Yes  No

CM (Coal Bed Methane)  Temp. Abd.

If yes, show depth set \_\_\_\_\_ Feet

Dry  Other \_\_\_\_\_

If Alternate II completion, cement circulated from \_\_\_\_\_

(Core, WSW, Expl., Cathodic, etc.)

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

If Workover/Reentry: Old Well Info as follows:

Drilling Fluid Management Plan **AFFINJ 1-19-11**  
(Data must be collected from the Reserve Pit)

Operator: \_\_\_\_\_

Chloride content 4000 ppm Fluid volume 1000 bbls

Well Name: \_\_\_\_\_

Dewatering method used EVAPORATION

Original Comp. Date \_\_\_\_\_ Original Total Depth \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Deepening  Re-perf.  Conv.to Enhr  Conv.to SWD

Operator Name HAYDEN, SHAWN OR BLANCHE dba HAYDEN OPERAT

Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_

Lease Name LIZ SMITH License No. 33562

Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. 26 Twp. 30 S. R. 34  East  West

Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

County HASKELL Docket No. D26802

Other (SWD or Enhr?) \_\_\_\_\_ Docket No. \_\_\_\_\_

9/7/10 9/14/10 9/20/10  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

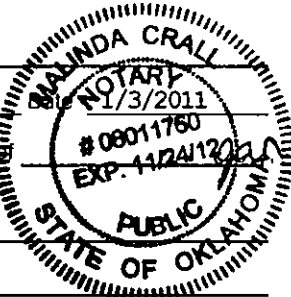
Signature Dawn Rockel

Title SR. OPERATIONS ASSISTANT

Subscribed and sworn to before me this 4<sup>th</sup> day

Notary Public Malinda Crall

Date Commission Expires 1/24/2012



KCC Office Use ONLY	
<input checked="" type="checkbox"/>	Letter of Confidentiality Attached <u>1/4/11/11/13</u>
<input checked="" type="checkbox"/>	If Denied, Yes <input type="checkbox"/> Date: _____
<input checked="" type="checkbox"/>	Wireline Log Received
<input type="checkbox"/>	Geologist Report Received
<input type="checkbox"/>	UIC Distribution

Operator Name EOG RESOURCES, INC.

Lease Name BROOKOVER

Well # 4 #2

Sec. 4 Twp. 25 S.R. 32  East  West

County FINNEY

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
(Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy)

List All E.Logs Run:

ARRAY, AHV, MICRO, SD/DS NEUTRON, SD/DS NEUTRON MICRO, CEMENT BOND & BOREHOLE SONIC ARRAY.

Log Formation (Top), Depth and Datums  Sample  
Name Top Datum

SEE ATTACHED

CASING RECORD  New  Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12.25	8 5/8	24#	1728'	MIDCON2	300	SEE ATTACHED
					CLASS 'A'	200	
PRODUCTION	7 7/8	5 1/2	15.5#	5095'	50/50 POZ	125	SEE ATTACHED

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4843-4860		

TUBING RECORD	Size <u>2 7/8</u>	Set At <u>4902'</u>	Packer At <u>N/A</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---------------	-------------------	---------------------	----------------------	---

Date of First, Resumed Production, SWD or Enhr. <u>9/20/10</u>	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
--	--

Estimated Production Per 24 Hours	Oil Bbls. <u>243</u>	Gas Mcf <u>0</u>	Water Bbls. <u>---</u>	Gas-Oil Ratio <u>---</u>	Gravity <u>29</u>
-----------------------------------	----------------------	------------------	------------------------	--------------------------	-------------------

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	Production Interval <u>4843'-4860'</u>
--	---	---

ACO-1 Completion Report

Well Name : BROOKOVER 4 #2

FORMATION	TOP	DATUM
BASE OF HEEBNER	3900	-1019
LANSING	3978	-1097
KANSAS CITY	4173	-1292
MARMATON	4460	-1579
CHEROKEE	4582	-1701
ATOKA	4726	-1845
MORROW	4800	-1919
CHESTER	4843	-1962
ST LOUIS	4890	-2009

KCC

JAN 04 2011

CONFIDENTIAL

RECEIVED

JAN 05 2011

KCC WICHITA

RECEIVED

KCC

JAN 05 2011

JAN 04 2011

KCC WICHITA

CONFIDENTIAL

**Cementing Job Summary**

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2805748	Quote #:	Sales Order #: 7620924
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Knox, Mike	
Well Name: Brookover 4	Well #: #2	API/UWI #: 1505522081	
Field:	City (SAP): SUBLETTE	County/Parish: Finney	State: Kansas
Legal Description: Section 4 Township 25S Range 32W			
Contractor: Kenai		Rig/Platform Name/Num: 55	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DRAKE, BRANDON		Srcv Supervisor: WILTSHIRE, MERSHEK	MBU ID Emp #: 165811

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
FARNUM, GORDAN	11.3	477892	LOPEZ, JUAN R	11.3	198514	MATA, ADOLFO V	11.3	419999
SMITH, BOBBY Wayne	3	106036	WILTSHIRE, MERSHEK Tonje		195811			

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

**Job**

**Job Times**

Formation Name	Formation Depth (MD) Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	BHST		On Location	08 - Sep - 2010	00:30	CST
Job depth MD	1728. ft	Job Depth TVD	Job Started	08 - Sep - 2010	09:27	CST
Water Depth		Wk Ht Above Floor	Job Completed	08 - Sep - 2010	10:39	CST
Perforation Depth (MD) From		To	Departed Loc	08 - Sep - 2010	12:00	CST

**Well Data**

Description	New / Used	Max pressure psig	Size In	ID In	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Surface Hole				12.25					1728.		
Surface Casing	Unknown		8.625	8.007	24.				1732.		

**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
CENTRALIZER ASSY - API - 8-5/8 CSG X	11	EA		
CLAMP - LIMIT - 8-5/8 - HINGED -	2	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		
PLUG,CMTG, TOP, 8 5/8, HVE, 7.20 MIN/8.09 MA	1	EA		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

**Miscellaneous Materials**

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

KCC

JAN 04 2011

CONFIDENTIAL **Cementing Job Summary**

Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Lead Cement	VARICEM (TM) CEMENT (452009)	300.0	sacks	11.4	2.96	18.14		18.14	
	3 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)								
	0.1 %	WG-17, 50 LB SK (100003623)								
	0.25 lbm	POLY-E-FLAKE (101216940)								
	18.138 Gal	FRESH WATER								
2	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	200.0	sacks	15.6	1.2	5.22		5.22	
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)								
	0.25 lbm	POLY-E-FLAKE (101216940)								
	6.218 Gal	FRESH WATER								
3	Displacement			bbl	8.33	.0	.0	.0		
Calculated Values			Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad		
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment		
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job		
Rates										
Circulating		Mixing		Displacement			Avg. Job			
Cement Left in Pipe		Amount	44 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID			
The Information Stated Herein Is Correct				Customer Representative Signature						

RECEIVED  
 JAN 05 2011  
 KCC WICHITA

**KCC** RECEIVED  
 JAN 04 2011 JAN 05 2011  
**CONFIDENTIAL** KCC WICHITA *Cementing Job Log*

*The Road to Excellence Starts with Safety*

Sold To #: 348223		Ship To #: 2805748		Quote #:		Sales Order #: 7620924	
Customer: EOG RESOURCES INC EBUSINESS				Customer Rep: Knox, Mike			
Well Name: Brookover 4			Well #: #2		API/UWI #: 1505522081		
Field:		City (SAP): SUBLETTE		County/Parish: Finney		State: Kansas	
Legal Description: Section 4 Township 25S Range 32W							
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.				Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.			
Contractor: Kenai			Rig/Platform Name/Num: 55				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: DRAKE, BRANDON			Srcv Supervisor: WILTSHIRE, MERSHEK			MBU ID Emp #: 195811	

Activity Description	Date/Time	Cnt #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/07/2010 22:00							
Arrive At Loc	09/08/2010 00:30							
Pre-Job Safety Meeting	09/08/2010 00:45							
Other	09/08/2010 07:00							HEAD LEAKS // WAIT ON ANOTHER HEAD
Start Job	09/08/2010 09:27							
Tost Lines	09/08/2010 09:27						3000.0	
Pump Lead Cement	09/08/2010 09:33		8	158			280.0	300 SKS VARICEM @ 11.4#
Pump Tail Cement	09/08/2010 09:54		5.5	43			300.0	200 SKS SWIFTCEM @ 15.6#
Drop Top Plug	09/08/2010 10:01		5.5		201		240.0	END CEMENT
Pump Displacoment	09/08/2010 10:02		10	107			180.0	WATER
Stage Cement	09/08/2010 10:16			87				
Other	09/08/2010 10:37						400.0	PRSSURE BEFORE LANDING PLUG
Bump Plug	09/08/2010 10:37		2		107		1450.0	FLOAT HELD
End Job	09/08/2010 10:39							
Cement Returns to Surface	09/08/2010 10:45				42			42 BBLs OF CEMENT TO PIT

Sold To #: 348223      Ship To #: 2805748      Quote #:      Sales Order #: 7620924  
 SUMMIT Version: 7.20.130      Wednesday, September 08, 2010 10:52:00



KCC  
 JAN 04 2011  
 CONFIDENTIAL

**Cementing Job Summary**

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Primary Cement	ECONOCEM (TM) SYSTEM (452992)	125.0	sacks	13.5	1.76	8.52		8.52
	6 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	10 %	SALT, BULK (100003695)							
	2 lbm	PRESSUR-SEAL LCM, 40 LB (101204356)							
	0.6 %	HALAD(R)-344, 50 LB (100003670)							
	0.5 %	D-AIR 3000 (101007446)							
	0.1 %	WG-17, 50 LB SK (100003623)							
	8.516 Gal	FRESH WATER							
2	2% KCL Displacement		120.00	bbl	8.45	.0	.0	.0	
	7.15 lbm/bbl	POTASSIUM CHLORIDE - KCL, 50 LB BAG (100001585)							
3	Rat Hole Plug Cement	PLUGCEM (TM) SYSTEM (452969)	50.0	sacks	13.5	1.76	8.52		8.52
	6 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	10 %	SALT, BULK (100003695)							
	2 lbm	PRESSUR-SEAL LCM, 40 LB (101204356)							
	0.6 %	HALAD(R)-344, 50 LB (100003670)							
	0.5 %	D-AIR 3000 (101007446)							
	0.1 %	WG-17, 50 LB SK (100003623)							
	8.516 Gal	FRESH WATER							
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
<b>Rates</b>									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	45 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

RECEIVED  
 JAN 05 2011  
 KCC WICHITA



**KCC**  
**JAN 04 2011**  
**CONFIDENTIAL**      **Cementing Job Log**

*The Road to Excellence Starts with Safety*

Sold To #: 348223		Ship To #: 2805748		Quote #:		Sales Order #: 7634767	
Customer: EOG RESOURCES INC EBUSINESS				Customer Rep: Knox, Mike			
Well Name: Brookover 4			Well #: #2		API/UWI #: 1505522081		
Field:		City (SAP): SUBLETTE		County/Parish: Finney		State: Kansas	
Legal Description: Section 4 Township 25S Range 32W							
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.				Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.			
Contractor: KENAI			Rig/Platform Name/Num: 55				
Job Purpose: Cement Production Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Production Casing				
Sales Person: DRAKE, BRANDON			Srvc Supervisor: WILTSHIRE, MERSHEK			MBU ID Emp #: 195811	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/13/2010 22:00							
Arrive At Loc	09/14/2010 01:00							
Pre-Job Safety Meeting	09/14/2010 01:15							
Start Job	09/14/2010 04:26							
Test Lines	09/14/2010 04:26						5000.0	
Pump Cement	09/14/2010 04:33		8	39			550.0	125 SKS ECONOCEM @ 13.5#
Drop Top Plug	09/14/2010 04:39		8	39			230.0	END CEMENT
Clean Lines	09/14/2010 04:41							
Pump Displacement	09/14/2010 04:48		10	120			300.0	KCL WATER
Other	09/14/2010 05:02		2	110			750.0	SLOW RATE
Other	09/14/2010 05:06						1000.0	PRESSURE BEFORE LANDING PLUG
Bump Plug	09/14/2010 05:06		2	120			1600.0	FLOAT HELD
Pump Cement	09/14/2010 05:19			16				50 SKS ECONOCEM @ 13.5# /// RAT AND MOUSE
End Job	09/14/2010 05:36							

RECEIVED

JAN 05 2011

KCC WICHITA

Sold To #: 348223      Ship To #: 2805748      Quote #:      Sales Order #: 7634767

SUMMIT Version: 7.20.130

Tuesday, September 14, 2010 05:43:00



**Weatherford®**  
**Completion Systems**

**DRILL STEM TEST REPORT**

Prepared For: **EOG Resources**

3817 NWEXPWY STE 500  
Oklahoma City Ok, 73112

ATTN: Mike Knox

**4/25s/32w**

**Brookover 4-2**

Start Date: 2010.09.11 @ 05:45:44

End Date: 2010.09.11 @ 17:44:44

Job Ticket #: 37387                      DST #: 1

**KCC**  
**JAN 04 2011**  
**CONFIDENTIAL**

**RECEIVED**  
**JAN 05 2011**  
**KCC WICHITA**

**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  
3817 NWEXPWAY STE 500  
Oklahoma City Ok, 73112  
ATTN: Mike Knox

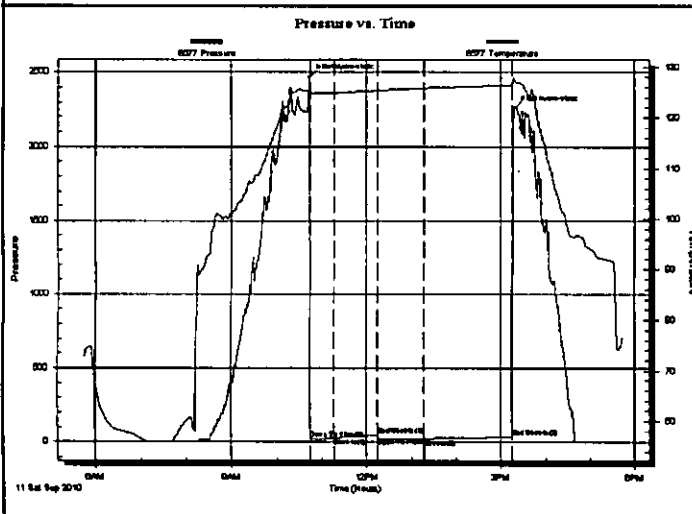
**Brookover 4-2**  
**4/25s/32w**  
Job Ticket: 37387      DST#: 1  
Test Start: 2010.09.11 @ 05:45:44

### GENERAL INFORMATION:

Formation: **Chester**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 10:44:59  
Time Test Ended: 17:44:44  
Interval: **4775.00 ft (KB) To 4815.00 ft (KB) (TVD)**  
Total Depth: **4815.00 ft (KB) (TVD)**  
Hole Diameter: **7.78 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Mike Slemp**  
Unit No: **53**  
Reference Elevations: **2880.00 ft (KB)**  
**2869.00 ft (CF)**  
KB to GR/CF: **11.00 ft**

**Serial #: 8677**      Inside  
Press@RunDepth: **22.16 psig @ 4777.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.09.11**      End Date: **2010.09.11**      Last Calib.: **2010.09.11**  
Start Time: **05:45:45**      End Time: **17:44:44**      Time On Btrm: **2010.09.11 @ 10:43:29**  
Time Off Btrm: **2010.09.11 @ 15:17:59**

TEST COMMENT: IF- Weak Surface blow, died after 5 min  
IS- No blow back  
FF- No blow  
FS- No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2465.47	125.66	Initial Hydro-static
2	19.17	124.94	Open To Flow (1)
33	25.85	124.92	Shut-in(1)
91	46.00	125.38	End Shut-in(1)
92	23.90	125.37	Open To Flow (2)
153	22.16	125.85	Shut-in(2)
272	32.96	126.44	End Shut-in(2)
275	2256.21	127.90	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	100% mud	0.15

### Gas Rates

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

RECEIVED

JAN 05 2011

KCC WICHITA





**Weatherford®**  
**Completion Systems**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

EOG Resources

Brookover 4-2

3817 NWEXPWY STE 500  
Oklahoma City Ok, 73112

4/25s/32w

Job Ticket: 37387

DST#: 1

ATTN: Mike Knox

Test Start: 2010.09.11 @ 05:45:44

**Tool Information**

Drill Pipe:	Length: 4382.00 ft	Diameter: 3.80 inches	Volume: 61.47 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:	80000.00 lb
			<u>Total Volume: 63.29 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	4775.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	69.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4751.00	
Sampler	3.00			4754.00	
Hydraulic tool	5.00			4759.00	
Jars	5.00			4764.00	
Safety Joint	2.00			4766.00	
Packer	5.00			4771.00	29.00 Bottom Of Top Packer
Packer	4.00			4775.00	
Stubb	1.00			4776.00	
Perforations	1.00			4777.00	
Recorder	0.00	8677	Inside	4777.00	
Recorder	0.00	8678	Inside	4777.00	
Perforations	35.00			4812.00	
Bullnose	3.00			4815.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**

RECEIVED

JAN 05 2011

KCC WICHITA



**Weatherford®**  
**Completion Systems**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

EOG Resources

**Brookover 4-2**

3817 NWEXPWY STE 500  
 Oklahoma City Ok, 73112

**4/25s/32w**

Job Ticket: 37387

**DST#: 1**

ATTN: Mike Knox

Test Start: 2010.09.11 @ 05:45:44

**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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 cm<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
30.00	100% mud	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler- 4000ML mud, 20psi

**RECEIVED**

**JAN 05 2011**

**KCC WICHITA**



# DRILL STEM TEST REPORT

GAS RATES

**Weatherford<sup>®</sup>**  
**Completion Systems**

EOG Resources  
3817 NWEXPWY STE 500  
Oklahoma City Ok, 73112  
ATTN: Mike Knox

Brookover 4-2  
4/25s/32w  
Job Ticket: 37387      DST#: 1  
Test Start: 2010.09.11 @ 05:45:44

## Gas Rates Information

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

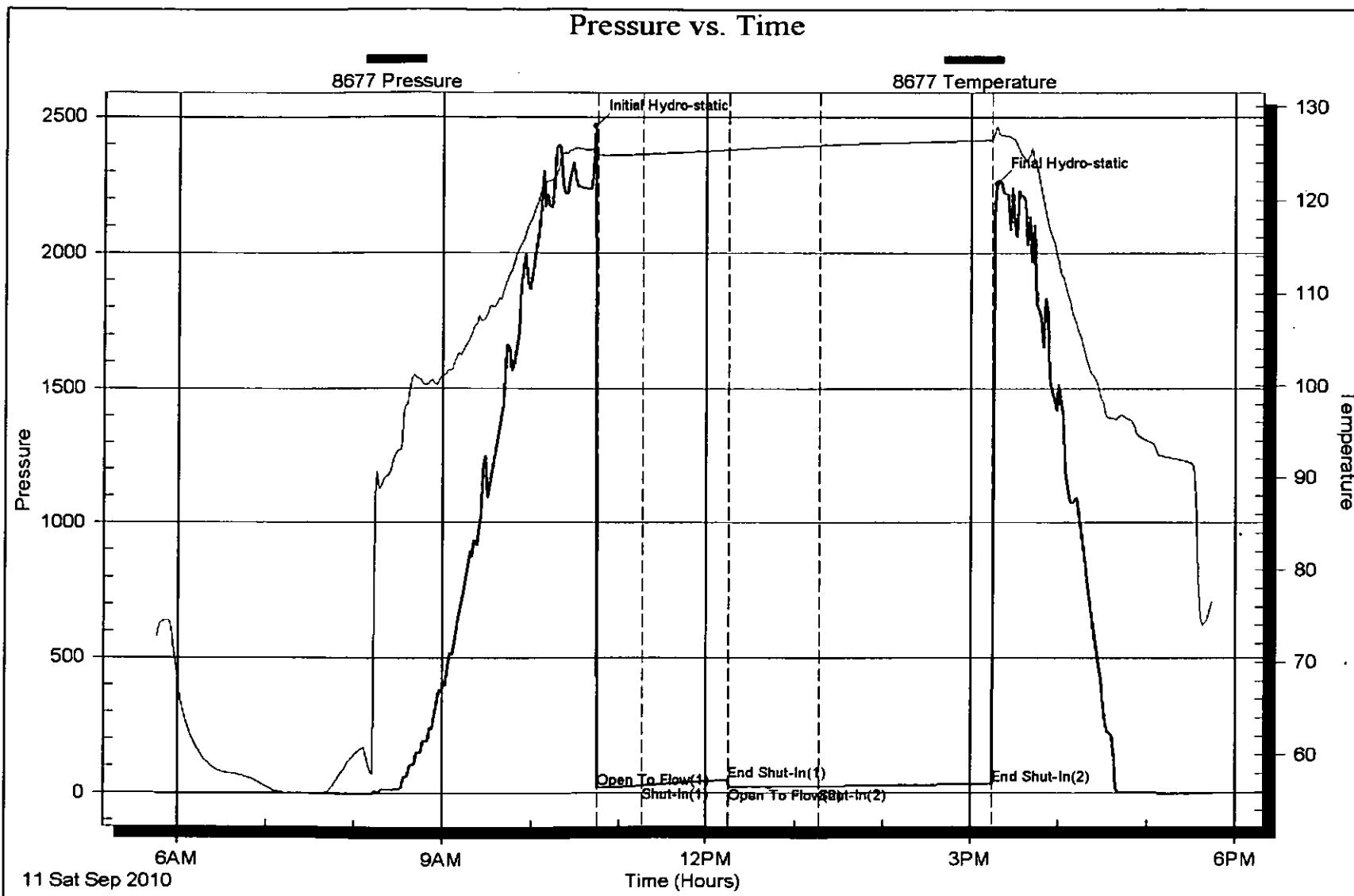
Gas Rates Table

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

RECEIVED

JAN 05 2011

KCC WICHITA

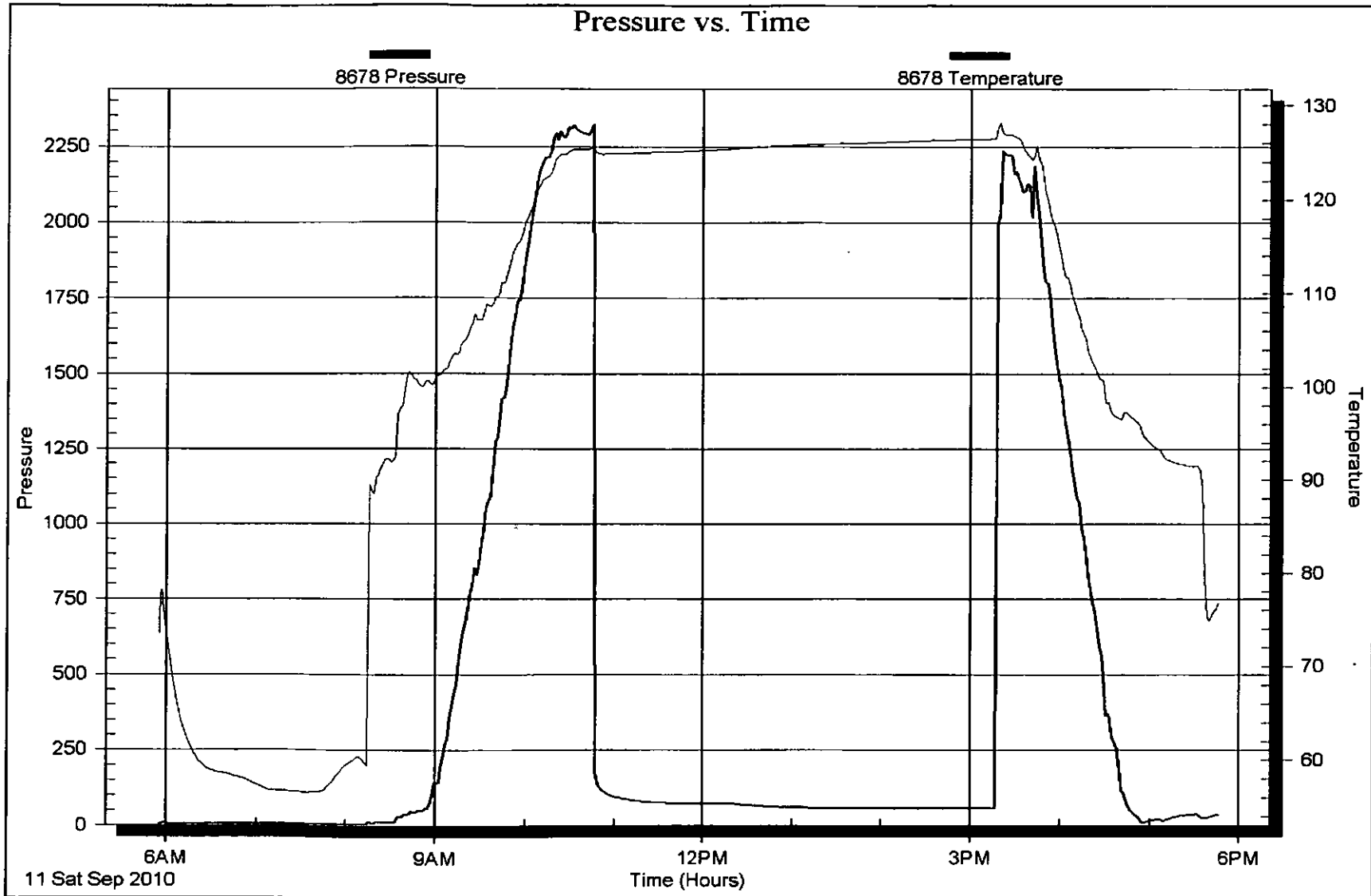


KCC WICHITA

JAN 05 2011

RECEIVED





RECEIVED  
JAN 05 2011  
KCC WICHITA



# Weatherford® Completion Systems

## DRILL STEM TEST REPORT

Prepared For: **EOG Resources**

3817 NWEXPWY STE 500  
Oklahoma City Ok, 73112

ATTN: Mike Knox

**4/25s/32w**

**Brookover 4-2**

Start Date: 2010.09.12 @ 04:00:01

End Date: 2010.09.12 @ 16:01:46

Job Ticket #: 37388                      DST #: 2

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

KCC  
JAN 04 2011  
CONFIDENTIAL

EOG Resources

Brookover 4-2

4/25s/32w

DST # 2

Chester

2010.09.12

Printed: 2010.09.14 @ 13:16:17 Page 1

RECEIVED  
JAN 05 2011  
KCC WICHITA



**Weatherford®**  
**Completion Systems**

# DRILL STEM TEST REPORT

EOG Resources

**Brookover 4-2**

3817 NWEXPWAY STE 500  
Oklahoma City Ok, 73112

**4/25s/32w**

Job Ticket: 37388

**DST#: 2**

ATTN: Mike Knox

Test Start: 2010.09.12 @ 04:00:01

## GENERAL INFORMATION:

Formation: **Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:39:46

Time Test Ended: 16:01:46

Test Type: Conventional Bottom Hole

Tester: Mike Stemp

Unit No: 53

Interval: **4820.00 ft (KB) To 4873.00 ft (KB) (TVD)**

Total Depth: 4873.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 2880.00 ft (KB)

2869.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8677**

Inside

Press@RunDepth: 1123.72 psig @ 4822.00 ft (KB)

Start Date: 2010.09.12

End Date:

2010.09.12

Start Time: 04:00:02

End Time:

16:01:46

Capacity: 8000.00 psig

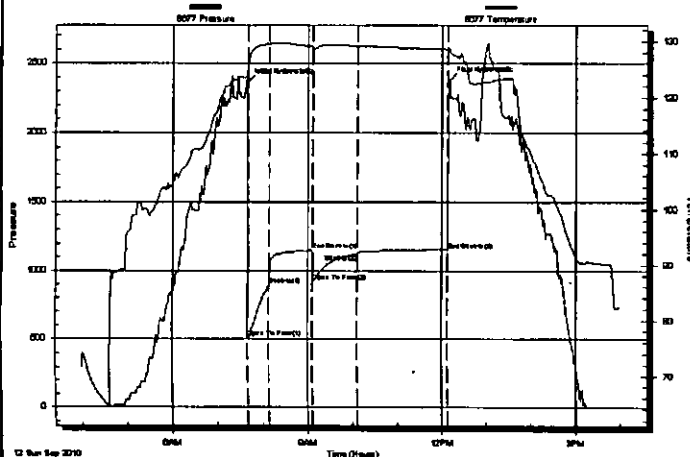
Last Calib.: 2010.09.12

Time On Btm: 2010.09.12 @ 07:38:16

Time Off Btm: 2010.09.12 @ 12:09:46

TEST COMMENT: IF- BOB in 1 min GTS in 24 TSTM  
ISL- 1 inch blow back  
FF- BOB in 1 min GTS ASAO TSTM  
FSL- BOB blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2365.78	123.66	Initial Hydro-static
2	512.49	125.72	Open To Flow (1)
30	894.11	129.42	Shut-In(1)
87	1147.10	129.07	End Shut-In(1)
89	923.60	128.96	Open To Flow (2)
149	1123.72	129.12	Shut-In(2)
269	1151.55	128.53	End Shut-In(2)
272	2378.74	128.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2742.00	GCO 50%oil 50%gas	35.09

## Gas Rates

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

RECEIVED

JAN 05 2011

KCC WICHITA



**Weatherford®**  
**Completion Systems**

# DRILL STEM TEST REPORT

EOG Resources  
3817 NWEXPWY STE 500  
Oklahoma City Ok, 73112  
ATTN: Mike Knox

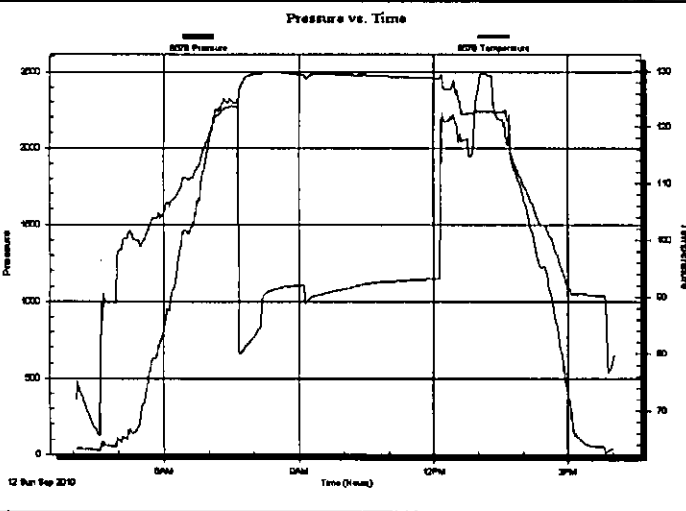
**Brookover 4-2**  
**4/25s/32w**  
Job Ticket: 37388      **DST#: 2**  
Test Start: 2010.09.12 @ 04:00:01

**GENERAL INFORMATION:**

Formation: **Chester**  
Deviated: **No Whipstock:**                      **ft (KB)**  
Time Tool Opened: 07:39:46  
Time Test Ended: 16:01:46  
Interval: **4820.00 ft (KB) To 4873.00 ft (KB) (TVD)**  
Total Depth: **4873.00 ft (KB) (TVD)**  
Hole Diameter: **7.78 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Mike Siemp**  
Unit No: **53**  
Reference Elevations: **2880.00 ft (KB)**  
**2869.00 ft (CF)**  
KB to GR/CF: **11.00 ft**

**Serial #: 8678**      **Inside**  
Press@RunDepth:                      **psig @ 4822.00 ft (KB)**      Capacity:                      **8000.00 psig**  
Start Date:                      **2010.09.12**      End Date:                      **2010.09.12**      Last Calib.:                      **2010.09.12**  
Start Time:                      **04:05:43**      End Time:                      **16:02:27**      Time On Btm:                        
Time Off Btm:                     

**TEST COMMENT:** IF- BOB in 1 min GTS in 24 TSTM  
IS- 1 inch blow back  
FF- BOB in 1 min GTS ASAO TSTM  
FS- BOB blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
2742.00	GCO 50%oil 50%gas	35.09

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

RECEIVED  
JAN 05 2011  
KCC WICHITA



**Weatherford®**  
**Completion Systems**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

EOG Resources

Brookover 4-2

3817 NWEXPWY STE 500  
Oklahoma City Ok, 73112

4/25s/32w

Job Ticket: 37388

DST#: 2

ATTN: Mike Knox

Test Start: 2010.09.12 @ 04:00:01

**Tool Information**

Drill Pipe:	Length: 4438.00 ft	Diameter: 3.80 inches	Volume: 62.25 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: 90000.00 lb
			<u>Total Volume: 64.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4820.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4796.00	
Sampler	3.00			4799.00	
Hydraulic tool	5.00			4804.00	
Jars	5.00			4809.00	
Safety Joint	2.00			4811.00	
Packer	5.00			4816.00	29.00 Bottom Of Top Packer
Packer	4.00			4820.00	
Stubb	1.00			4821.00	
Perforations	1.00			4822.00	
Recorder	0.00	8677	inside	4822.00	
Recorder	0.00	8678	inside	4822.00	
Perforations	15.00			4837.00	
Change Over Sub	1.00			4838.00	
Drill Pipe	31.00			4869.00	
Change Over Sub	1.00			4870.00	
Bullnose	3.00			4873.00	53.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>82.00</b>				

RECEIVED

JAN 05 2011

KCC WICHITA



**Weatherford®**  
**Completion Systems**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

EOG Resources

**Brookover 4-2**

3817 NWEXPWY STE 500  
 Oklahoma City Ok, 73112

**4/25s/32w**

Job Ticket: 37388

**DST#: 2**

ATTN: Mike Knox

Test Start: 2010.09.12 @ 04:00:01

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

22 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.99 cm<sup>3</sup>

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
2742.00	GCO 50%oil 50%gas	35.093

Total Length: 2742.00 ft      Total Volume: 35.093 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler-1200psi, 4.0 cu/ft gas 2000ml oil

RECEIVED

JAN 05 2011

KCC WICHITA



# DRILL STEM TEST REPORT

GAS RATES

**Weatherford**<sup>®</sup>  
**Completion Systems**

EOG Resources  
3817 NWEXPWY STE 500  
Oklahoma City Ok, 73112  
ATTN: Mike Knox

Brookover 4-2  
4/25s/32w  
Job Ticket: 37388      DST#: 2  
Test Start: 2010.09.12 @ 04:00:01

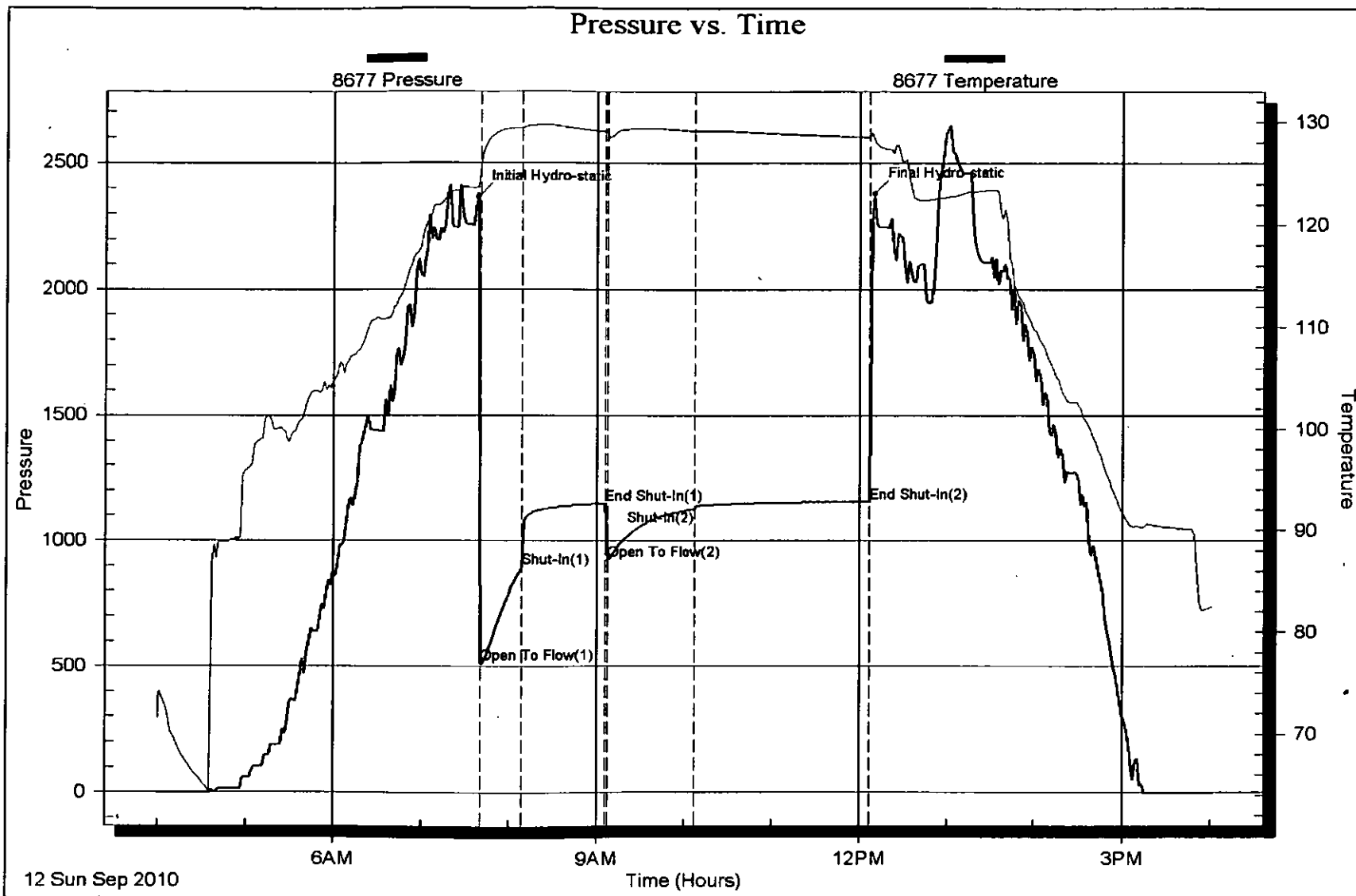
## Gas Rates Information

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

Gas Rates Table

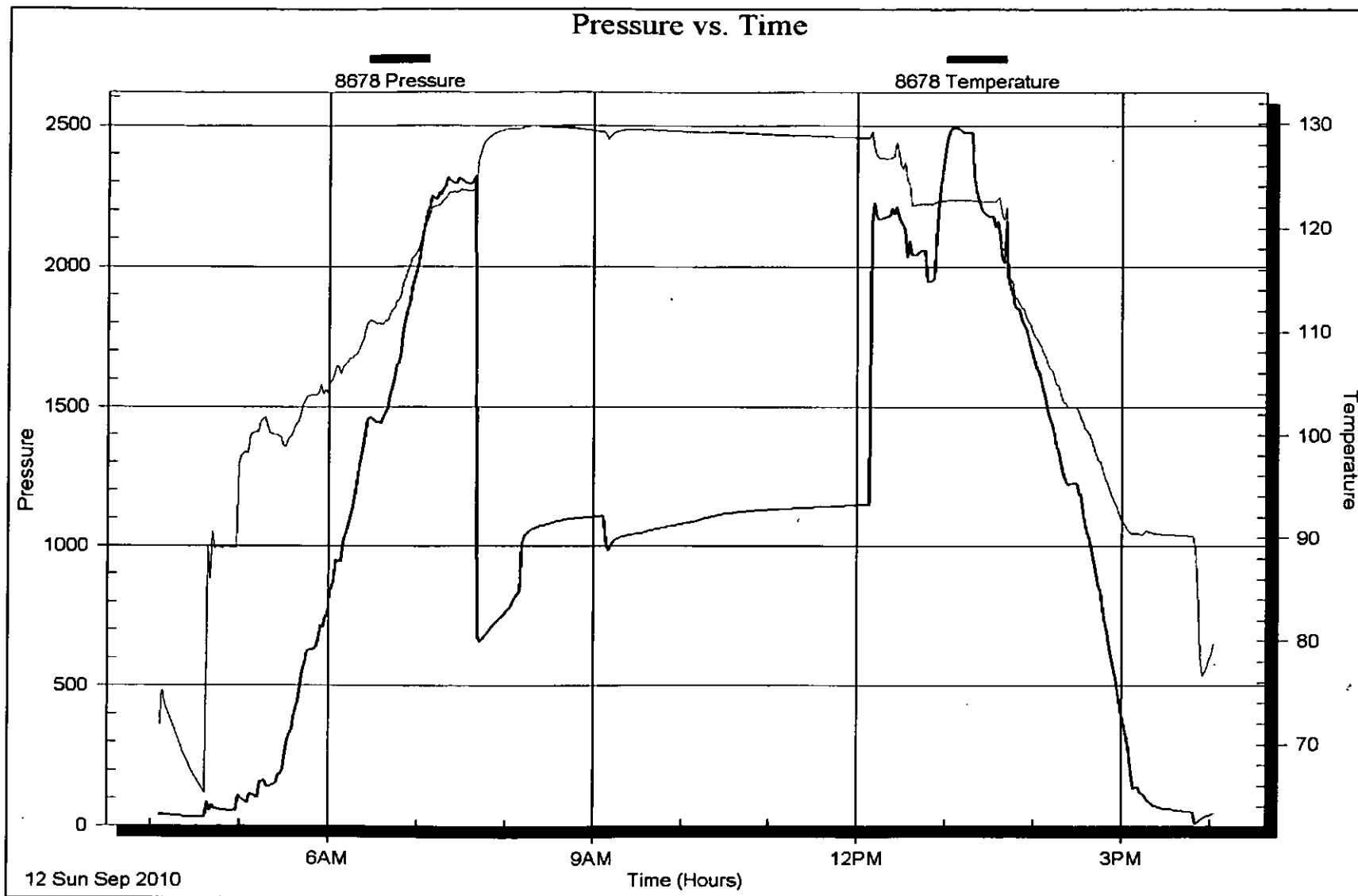
Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
		0.00	0.00	0.00

RECEIVED  
JAN 05 2011  
KCC WICHITA



RECEIVED  
JAN 05 2011  
KCC WICHITA





RECEIVED  
JAN 05 2011  
KCC WICHITA