

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

RECEIVED

JUL 19 2010

Form ACO-1

October 2008

Form must be Typed

**WELL COMPLETION FORM**

**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

KCC WICHITA

**ORIGINAL**  
7/13/12

OPERATOR: License # 5278

Name: EOG Resources, Inc.

Address 1: 3817 NW Expressway, Suite 500

Address 2: Suite 500

City Oklahoma City State OK Zip: 73112 +

Contact Person: DAWN ROCKEL

Phone ( 405 ) 246-3226

CONTRACTOR: License # 34000

Name: KENAI MID-CONTINENT, INC.

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

Purchaser: N/A

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SLOW

Gas  ENHR  SIGW

CM (Coal Bed Methane)  Temp. Abd.

Dry  Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Reentry: Old Well Info as follows:

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

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

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

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

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

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

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

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

3/21/10 3/29/10 5/13/10 - DRY  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API NO. 15- 055-22061-00-00

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

NE - SE - SW - NW Sec. 23 Twp. 26 S. R. 34  East  West

2285 Feet from  North /  South Line of Section

1020 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

County FINNEY

Lease Name WHEATLAND Well # 23 #1

Field Name WILDCAT

Producing Formation N/A

Elevation: Ground 2931' GR \_\_\_\_\_ Kelley Bushing 2942'

Total Depth 5340' Plug Back Total Depth N/A

Amount of Surface Pipe Set and Cemented at 1701 Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan As In 7-21-10  
(Data must be collected from the Reserve Pit)

Chloride content 4000 ppm Fluid volume 1000 bbls

Dewatering method used EVAPORATION

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

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County \_\_\_\_\_ Docket No. \_\_\_\_\_

**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 Roc Kel

Title SR. OPERATIONS ASSISTANT Date 7/13/2010

Subscribed and sworn to before me this 16th day of July

20 10  
Notary Public Diana Igleheart

Date Commission Expires 7/16/13



DIANA IGLEHEART  
Notary Public  
State of Oklahoma

Commission # 09005487 Expires 07/06/13

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached 7/13/10 - 7/13/12  
 Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 Distribution

Operator Name EOG RESOURCES, INC.

Lease Name WHEATLAND

Well # 23 #1

Sec. 23 Twp. 26 S.R. 34  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:

RESISTIVITY, SONIC ARRAY, MICRO, SD/DS NEUTRON, SD/DS NEUTRON MICRO, CORRELATION COLLAR & SECTOR BOND.

Log Formation (Top), Depth and Datums  Sample

Name 300 Top Datum

SEE ATTACHED SHEET

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 1/4	8 5/8	24#	1700	MIDCON2	300	SEE ATTACHED
					CLASS 'A'	200	
PRODUCTION	7 7/8	4 1/2	10.5# & 11.6	4701	POZ 50/50	110	SEE ATTACHED

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
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	4570-4576'	FRAC w/1000 gals 15% HCL	4570-4576
	CIBP @ 4560'	FRAC w/1000 gals 15% HCL.	4540-4546
4	4540-4546'		

TUBING RECORD Size 2 3/8 Set At 4520' Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SWD or Enhr. \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

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

ACO-1 Completion Report

Well Name : WHEATLAND 23 #1

FORMATION	TOP	DATUM
BASE OF HEEBNER	3910	-968
LANSING	3976	-1034
KANSAS CITY	4222	-1280
MARMATON	4523	-1581
CHEROKEE	4640	-1698
ATOKA	4847	-1905
MORROW	4959	-2017

**KCC**

JUL 13 2010

**CONFIDENTIAL**

RECEIVED

JUL 13 2010

KCC WICHITA

RECEIVED

JUL 1 9 2010

KCC

JUL 13 2010

HALLIBURTON

KCC WICHITA

Cementing Job Summary **CONFIDENTIAL**

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2774979	Quote #:	Sales Order #: 7253106
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Heston, Myron	
Well Name: Wheatland	Well #: 23#1	API/UWI #: 1505522061	
Field:	City (SAP): SUBLETTE	County/Parish: Haskell	State: Kansas
Legal Description: Section 23 Township 26S Range 34W			
Contractor: ABERCROMBIE		Rig/Platform Name/Num: 54	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DRAKE, BRANDON		Srvc Supervisor: DEETZ, DONALD	MBU ID Emp #: 389855

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEETZ, DONALD E	7.0	389855	LOPEZ, JUAN	7.0	136795	PORTILLO, CESAR S	7.0	457847
TORRES, CLEMENTE	7.0	344233						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10244148	45 mile	10286731	45 mile	10714253C	45 mile	10866807	45 mile
10994449	45 mile	10998524	45 mile	11133699	45 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
3-21-10	.5	.5	3-22-10	6.5	3			
<b>TOTAL</b>			Total is the sum of each column separately					

Job

Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	BHST		On Location	21 - Mar - 2010	21:30	CST
Job depth MD	1700. ft	Job Depth TVD	Job Started	22 - Mar - 2010	03:35	CST
Water Depth		Wk Ht Above Floor	Job Completed	22 - Mar - 2010	05:12	CST
Perforation Depth (MD) From		To	Departed Loc	22 - Mar - 2010	06:30	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Surface Hole				12.25					1700.		
Surface Casing	Unknown		8.625	8.097	24.				1700.		

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		
SUGAR - GRANULATED	80	LB		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	8 5/8	1	w	1700	Packer					Top Plug	8 5/8	1	h
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float	8 5/8	1	w	1660						Plug Container	8 5/8	1	h
Stage Tool										Centralizers	8 5/8	11	h

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%

**HALLIBURTON**

**KCC**

JUL 13 2010

**CONFIDENTIAL**

**Cementing Job Summary**

Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty				
<b>Fluid Data</b>										
<b>Stage/Plug #: 1</b>										
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	MID-CON 2 STANDARD	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	STANDARD	SWIFCEM (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)								
	5.218 Gal	FRESH WATER								
3	Displacement		105.00	bbl	8.33	.0	.0	.0		
<b>Calculated Values</b>			<b>Pressures</b>			<b>Volumes</b>				
Displacement	105	Shut In: Instant		Lost Returns	0	Cement Slurry	201	Pad		
Top Of Cement	surface	5 Min		Cement Returns	60	Actual Displacement	103	Treatment		
Frac Gradient		15 Min		Spacers	0	Load and Breakdown		Total Job	304	
<b>Rates</b>										
Circulating	7	Mixing	6.5	Displacement	7.5	Avg. Job	6			
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 <i>M.D. Kemp</i>						

RECEIVED  
JUL 19 2010  
KCC WICHITA

# HALLIBURTON

RECEIVED  
 JUL 13 2010  
 KCC WICHITA

KCC  
 JUL 13 2010  
 CONFIDENTIAL  
**Cementing Job Log**

*The Road to Excellence Starts with Safety*

Sold To #: 348223	Ship To #: 2774979	Quote #:	Sales Order #: 7253106
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Heston, Myron	
Well Name: Wheatland	Well #: 23#1	API/UWI #: 1505522061	
Field:	City (SAP): SUBLETTE	County/Parish: Haskell	State: Kansas
Legal Description: Section 23 Township 26S Range 34W			
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: ABERCROMBIE		Rig/Platform Name/Num: 54	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DRAKE, BRANDON		Srvc Supervisor: DEETZ, DONALD	MBU ID Emp #: 389855

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/21/2010 21:30							
Depart Yard Safety Meeting	03/21/2010 21:45							discuse routs and stops
Arrive At Loc	03/21/2010 23:00							casing crew was rigging up
Assessment Of Location Safety Meeting	03/21/2010 23:05							walk around location point out any hazards
Pre-Rig Up Safety Meeting	03/21/2010 23:10							watch for pinch points,hammering and walking hazards
Rig-Up Completed	03/22/2010 00:10							
Casing on Bottom	03/22/2010 03:05							
Pre-Job Safety Meeting	03/22/2010 03:10							with all personal on location
Start Job	03/22/2010 03:35							
Pressure Test	03/22/2010 03:36							2000 psi
Pump Lead Cement	03/22/2010 03:42		6	158			250	300 sks @ 11.4
Pump Tail Cement	03/22/2010 04:08		6	43	201		200	200 sks @ 15.6
Drop Plug	03/22/2010 04:17							top plug only
Pump Displacement	03/22/2010 04:22		6	105	306		400	fresh water staged in last 20 bbl
Bump Plug	03/22/2010 04:55							bumped plug @ 550 took to 1200
Check Floats	03/22/2010 04:56							did not hold 2 bbl flowed back at a high rate
Bump Plug	03/22/2010 04:58							bumped plug @ 550 took to 1200

Sold To #: 348223

Ship To #: 2774979

Quote #:

Sales Order #: 7253106

SUMMIT Version: 7.20.130

Monday, March 22, 2010 05:32:00

RECEIVED

JUL 19 2010

KCC WICHITA

HALLIBURTON

*Cementing Job Log*

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Check Floats	03/22/2010 04:59							did not hold 2 bbl flowed back at a high rate
Bump Plug	03/22/2010 05:00							bumped plug @ 550 took to 1200
Check Floats	03/22/2010 05:06							mike knox called and they told him to shut it in @ 500
Bump Plug	03/22/2010 05:07							bumped plug shut in head for four hours
Pre-Rig Down Safety Meeting	03/22/2010 05:10							all hse employees present
Rig-Down Equipment	03/22/2010 05:15							
Depart Location Safety Meeting	03/22/2010 06:00							all hse employees present
Depart Location for Service Center or Other Site	03/22/2010 06:30							thanks for calling halliburton eric & crew
End Job	03/22/2010 23:45							got back a full 60 bbl returns

Sold To # : 348223

Ship To # :2774979

Quote # :

Sales Order # :

7253106

SUMMIT Version: 7.20.130

Monday, March 22, 2010 05:32:00

RECEIVED

JUL 19 2010

KCC

KCC WICHITA JUL 13 2010

HALLIBURTON

CONFIDENTIAL  
Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2774979	Quote #:	Sales Order #: 7270901
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Heiskell, Preston	
Well Name: Wheatland	Well #: 23#1	API/UWI #:	
Field:	City (SAP): SUBLETTE	County/Parish: Haskell	State: Kansas
Contractor: Kenai	Rig/Platform Name/Num: 55		
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: BLAKEY, JOSEPH		Srvc Supervisor: WILTSHIRE, MERSHEK	MBU ID Emp #: 195811

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CARRILLO, EDUARDO Carrillo	8.3	371263	HAYES, CRAIG H	8.3	449385	WILTSHIRE, MERSHEK Tonje	8.3	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
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				On Location	29 - Mar - 2010	01:00	CST
Form Type		BHST		Job Started	29 - Mar - 2010	07:10	CST
Job depth MD	4700. ft	Job Depth TVD	4700. ft	Job Completed	29 - Mar - 2010	08:14	CST
Water Depth		Wk Ht Above Floor	5. ft	Departed Loc	29 - Mar - 2010	09:30	CST
Perforation Depth (MD)	From	To					

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
7 7/8 Open Hole				7.875				1700.	4700.		
4 1/2 Production Casing	Unknown		4.5	4.	11.6				4700.		
8 5/8 Surface Casing	Unknown		8.625	8.097	24.				1700.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CTRZR ASSY, TURBO, API, 4 1/2 CSG X 7 7/8	19	EA		
PLUG, CMTG, TOP, 4 1/2, HWE, 3.65 MIN/4.14 MA	1	EA		
CLAMP - LIMIT - 4-1/2 - HINGED -	3	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  
 RECEIVED JUL 13 2010  
 JUL 19 2010 CONFIDENTIAL

**HALLIBURTON**

KCC WICHITA

*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	POZ STANDARD 50/50 - SBM (12308)	110.0	sacks	13.5	1.75	8.43		8.43
	6 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	10 %	SALT, 100 LB BAG (100003652)							
	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)							
	8.434 Gal	FRESH WATER							
2	2% KCL Displacement		74.00	bbl	8.45	.0	.0	.0	
	167 lbm/Mgal	POTASSIUM CHLORIDE - KCL, 50 LB BAG (100001585)							
3	Rat Hole Plug Cement	POZ STANDARD 50/50 - SBM (12308)	50.0	sacks	13.5	1.75	8.43		8.43
	6 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	10 %	SALT, 100 LB BAG (100003652)							
	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)							
	8.434 Gal	FRESH WATER							
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	0 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 <i>M. D. Kemp</i>				

HALLIBURTON

RECEIVED **KCC**  
 JUL 18 2010 JUL 13 2010  
 KCC WICHITA **CONFIDENTIAL** Cementing Job Log

*The Road to Excellence Starts with Safety*

Sold To #: 348223	Ship To #: 2774979	Quote #:	Sales Order #: 7270901
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Heiskell, Preston	
Well Name: Wheatland	Well #: 23#1	API/UWI #:	
Field:	City (SAP): SUBLETTE	County/Parish: Haskell	State: Kansas
Legal Description:			
Lat:		Long:	
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: BLAKEY, JOSEPH		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	03/28/2010 22:00							
Arrive At Loc	03/29/2010 01:00							
Pre-Job Safety Meeting	03/29/2010 02:00							
Start Job	03/29/2010 07:10							4 1/2 PRODUCTION CASING
Test Lines	03/29/2010 07:10						4000.0	
Pump Cement	03/29/2010 07:16		6	34			230.0	110 SKS 50/50 POZ PP @ 13.5#
Drop Top Plug	03/29/2010 07:23		6	34			230.0	END CEMENT
Clean Lines	03/29/2010 07:24							
Pump Displacement	03/29/2010 07:29		6.5	74			80.0	2% KCL WATER
Other	03/29/2010 07:42		2	64			500.0	SLOW RATE
Other	03/29/2010 07:45						400.0	PRESSURE BEFORE LANDING PLUG
Bump Plug	03/29/2010 07:45		2	74			1400.0	FLOAT HELD
Pump Cement	03/29/2010 07:55			16				50 SKS PLUG RAT AND MOUSE
End Job	03/29/2010 08:14							END JOB

Sold To #: 348223

Ship To #: 2774979

Quote #:

Sales Order #: 7270901

SUMMIT Version: 7.20.130

Monday, March 29, 2010 08:30:00



# Weatherford® Completion Systems

## DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc.**

3817 NW Expressway Oklahoma City Ok.

ATTN: Mike

**26/34/23**

**Wheatland 23-1**

Start Date: 2010.03.24 @ 08:00:00

End Date: 2010.03.24 @ 17:48:30

Job Ticket #: 37599                      DST #: 1

**KCC**  
**JUL 13 2010**  
**CONFIDENTIAL**

**RECEIVED**  
**JUL 13 2010**  
**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 Inc.  
3817 NW Expressway Oklahoma City Ok.  
ATTN: Mike

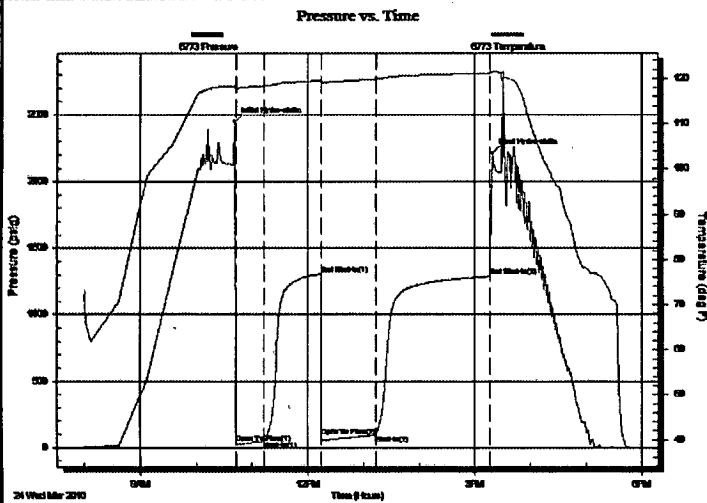
**Wheatland 23-1**  
**26/34/23**  
Job Ticket: 37599      **DST#: 1**  
Test Start: 2010.03.24 @ 08:00:00

### GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 10:42:40  
Time Test Ended: 17:48:30  
Test Type: Conventional Bottom Hole  
Tester: Harley Davidson  
Unit No: 33  
Interval: **4535.00 ft (KB) To 4565.00 ft (KB) (TVD)**  
Reference Elevations: 2952.00 ft (KB)  
Total Depth: 4565.00 ft (KB) (TVD)                      2940.00 ft (CF)  
Hole Diameter: 7.78 inches -hole Condition: Fair                      KB to GR/CF: 12.00 ft

**Serial #: 6773**      **Inside**  
Press@RunDepth: 94.05 psig @ 4538.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.03.24      End Date: 2010.03.24      Last Calib.: 2010.03.24  
Start Time: 08:00:05      End Time: 17:48:30      Time On Btm: 2010.03.24 @ 10:42:00  
Time Off Btm: 2010.03.24 @ 15:18:59

TEST COMMENT: IF- Weak building blow BOB 25min.  
IS- No blow back.  
FF- Good building blow BOB 11min, NO GTS.  
FS- No blow back.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2448.35	118.43	Initial Hydro-static
1	31.84	117.25	Open To Flow (1)
31	46.14	118.33	Shut-In(1)
93	1305.17	119.53	End Shut-In(1)
93	85.27	119.09	Open To Flow (2)
152	94.05	119.87	Shut-In(2)
275	1286.70	121.13	End Shut-In(2)
277	2211.30	121.44	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
600.00	GP	5.06
180.00	15%gas 25%oil60%mud	2.52

### Gas Rates

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





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

# DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources Inc.

Wheatland 23-1

3817 NW Expressway Oklahoma City Ok.

26/34/23

Job Ticket: 37599

DST#: 1

ATTN: Mike

Test Start: 2010.03.24 @ 08:00:00

## Tool Information

Drill Pipe:	Length: 4149.00 ft	Diameter: 3.80 inches	Volume: 58.20 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: 70000.00 lb
			<u>Total Volume: 60.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4535.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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			4509.00	
Shut In Tool	5.00			4514.00	
Hydraulic tool	5.00			4519.00	
Jars	5.00			4524.00	
Safety Joint	2.00			4526.00	
Packer	5.00			4531.00	27.00 Bottom Of Top Packer
Packer	4.00			4535.00	
Stubb	1.00			4536.00	
Perforations	2.00			4538.00	
Recorder	0.00	8355	Inside	4538.00	
Recorder	0.00	6773	Inside	4538.00	
Perforations	24.00			4562.00	
Bullnose	3.00			4565.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



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

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

EOG Resources Inc.

**Wheatland 23-1**

3817 NW Expressway Oklahoma City Ok.

**26/34/23**

Job Ticket: 37599

**DST#: 1**

ATTN: Mike

Test Start: 2010.03.24 @ 08:00:00

**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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 cm<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
600.00	GIP	5.055
180.00	15%gas 25%oil60%mud	2.525

Total Length: 780.00 ft Total Volume: 7.580 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- 30 CFD gas 2000ML mud 25% oil @ 1200PSI



# DRILL STEM TEST REPORT

**GAS RATES**

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

EOG Resources Inc.  
3817 NW Expressway Oklahoma City Ok.  
ATTN: Mike

**Wheatland 23-1**  
**26/34/23**  
Job Ticket: 37599      **DST#: 1**  
Test Start: 2010.03.24 @ 08:00:00

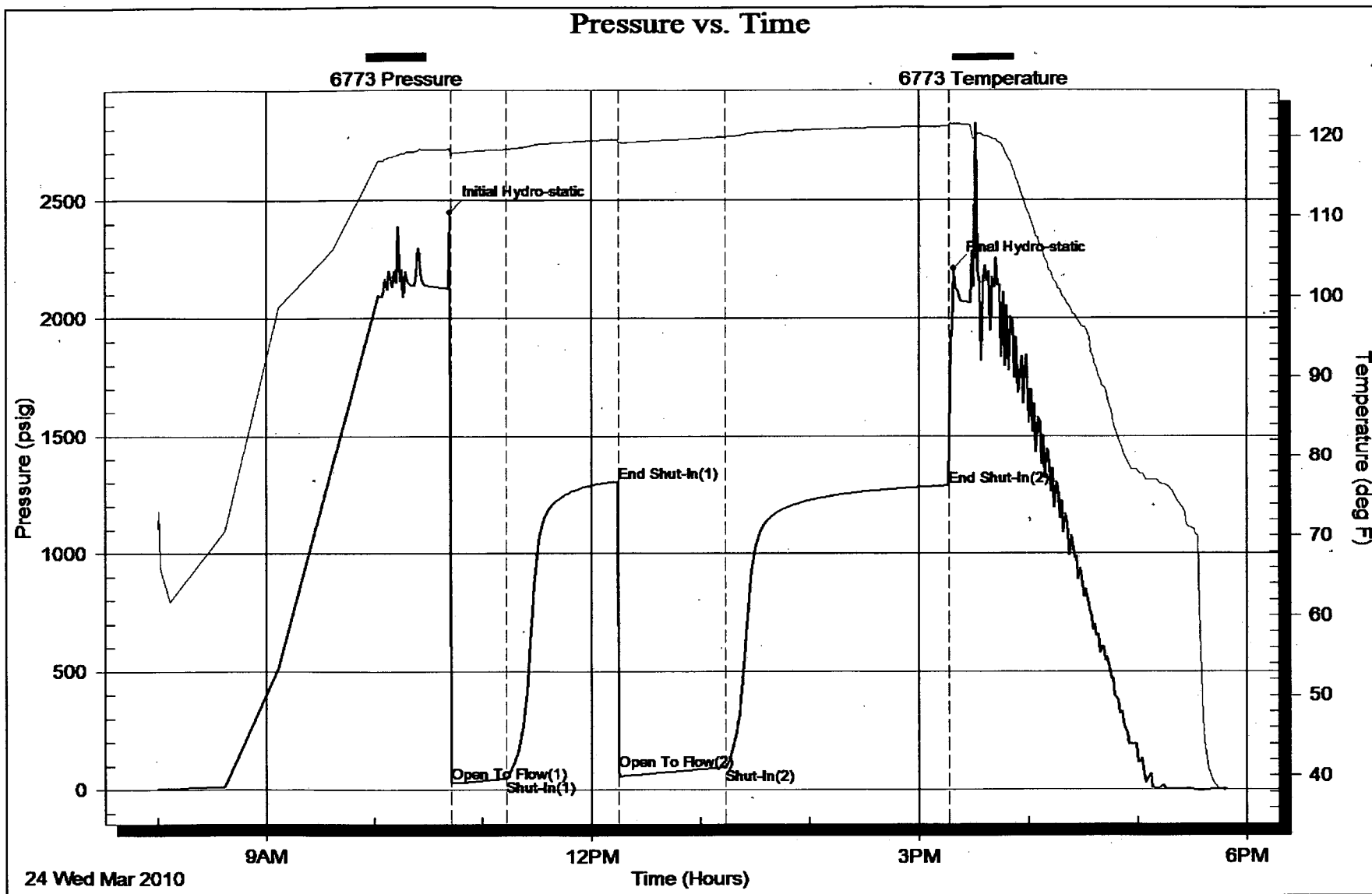
## Gas Rates Information

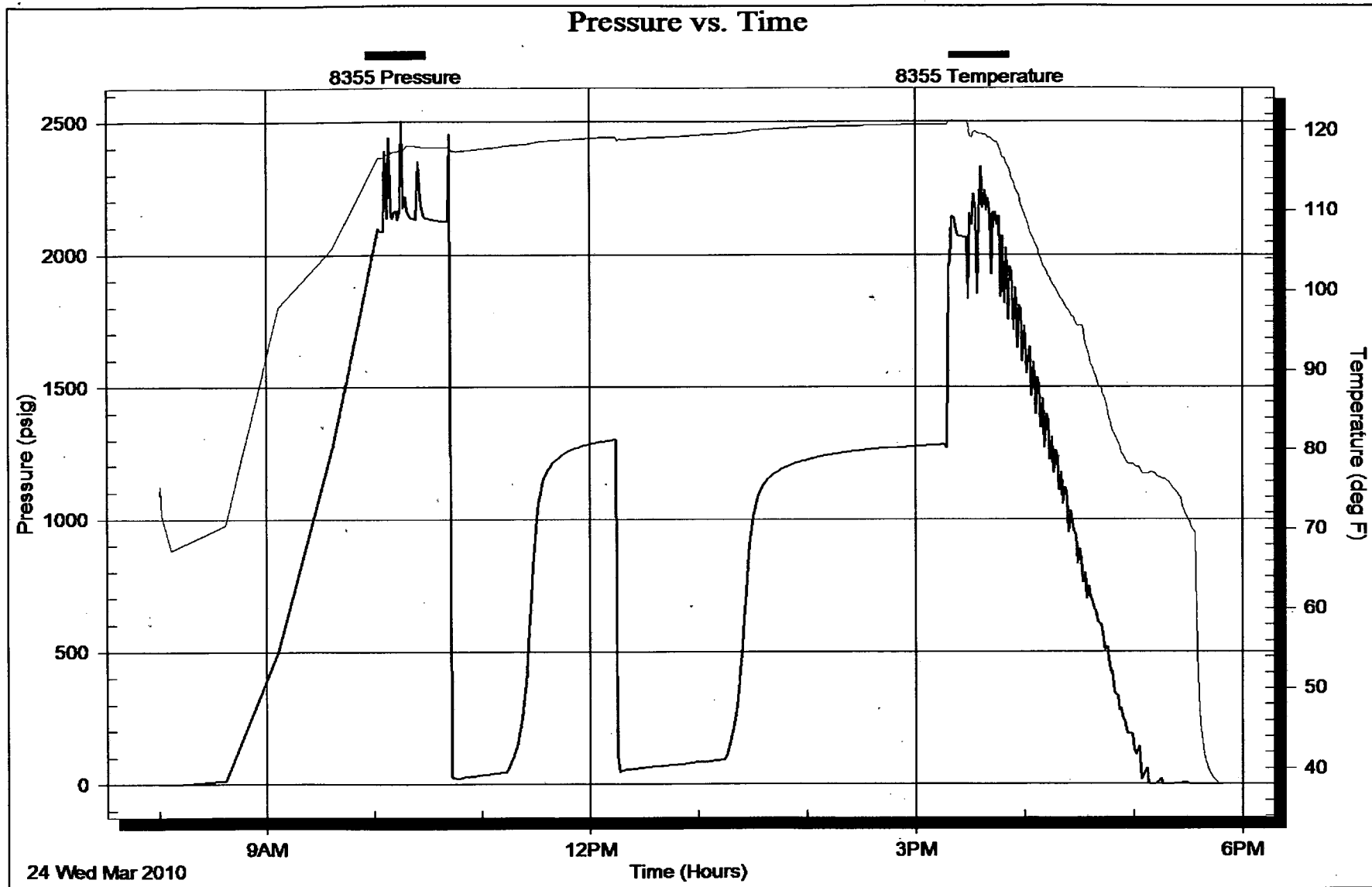
Temperature:      59 deg C  
Relative Density:    0.65  
Z Factor:            0.8

Gas Rates Table

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









# Weatherford® Completion Systems

## DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc.**

3817 NW Expressway Oklahoma City Ok.

ATTN: Mike Knox

**26/34/23**

**Wheatland 23-1**

Start Date: 2010.03.25 @ 10:00:00

End Date: 2010.03.25 @ 19:20:30

Job Ticket #: 37600                      DST #: 2

**KCC**  
**JUL 13 2010**  
**CONFIDENTIAL**

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



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

## DRILL STEM TEST REPORT

EOG Resources Inc.  
3817 NW Expressway Oklahoma City Ok.  
ATTN: Mike Knox

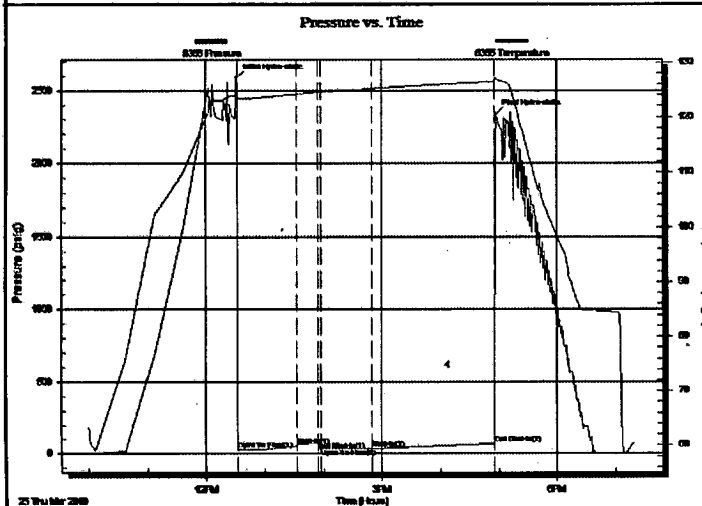
**Wheatland 23-1**  
**26/34/23**  
Job Ticket: 37600      **DST#: 2**  
Test Start: 2010.03.25 @ 10:00:00

### GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 12:32:40  
Time Test Ended: 19:20:30  
Test Type: Conventional Bottom Hole  
Tester: Harley Davidson  
Unit No: 33  
Interval: **4911.00 ft (KB) To 5042.00 ft (KB) (TVD)**  
Reference Elevations: 2952.00 ft (KB)  
Total Depth: 5042.00 ft (KB) (TVD)      2940.00 ft (CF)  
Hole Diameter: 7.78 inches -hole Condition: Fair      KB to GR/CF: 12.00 ft

**Serial #: 8355      Inside**  
Press@RunDepth: 35.49 psig @ 4914.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.03.25      End Date: 2010.03.25      Last Calib.: 2010.03.25  
Start Time: 10:00:05      End Time: 19:20:30      Time On Btm: 2010.03.25 @ 12:31:50  
Time Off Btm: 2010.03.25 @ 16:57:09

**TEST COMMENT:** IF- Weak blow 1/2 in into bucket, died after 10 min.  
IS- No blow back.  
FF- No blow.  
IS- No blow back.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2585.46	124.05	Initial Hydro-static
1	27.57	123.18	Open To Flow (1)
61	54.33	124.16	Shut-In(1)
83	82.56	124.54	End Shut-In(1)
86	33.12	124.52	Open To Flow (2)
138	35.49	125.14	Shut-In(2)
264	70.81	126.38	End Shut-In(2)
266	2337.80	126.84	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud	0.05

### Gas Rates

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



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

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

EOG Resources Inc.

**Wheatland 23-1**

3817 NW Expressway Oklahoma City Ok.

**26/34/23**

Job Ticket: 37600

**DST#: 2**

ATTN: Mike Knox

Test Start: 2010.03.25 @ 10:00:00

**Tool Information**

Drill Pipe:	Length: 4517.00 ft	Diameter: 3.80 inches	Volume: 63.36 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: 95000.00 lb
		<u>Total Volume:</u>	<u>65.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4911.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	131.00 ft			
Tool Length:	161.00 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			4882.00	
Shut In Tool	5.00			4887.00	
Sampler	2.00			4889.00	
Hydraulic tool	5.00			4894.00	
Jars	5.00			4899.00	
Safety Joint	3.00			4902.00	
Packer	5.00			4907.00	30.00 Bottom Of Top Packer
Packer	4.00			4911.00	
Stubb	1.00			4912.00	
Perforations	2.00			4914.00	
Recorder	0.00	6773	Inside	4914.00	
Recorder	0.00	8355	Inside	4914.00	
Change Over Sub	1.00			4915.00	
Drill Pipe	93.00			5008.00	
Change Over Sub	1.00			5009.00	
Perforations	30.00			5039.00	
Bullnose	3.00			5042.00	131.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>161.00</b>				



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

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

EOG Resources Inc.

**Wheatland 23-1**

3817 NW Expressway Oklahoma City Ok.

**26/34/23**

Job Ticket: 37600

**DST#: 2**

ATTN: Mike Knox

Test Start: 2010.03.25 @ 10:00:00

**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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 cm<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- trace of mud @ 70 PSI.



# DRILL STEM TEST REPORT

GAS RATES

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

EOG Resources Inc.  
3817 NW Expressway Oklahoma City Ok.  
ATTN: Mike Knox

**Wheatland 23-1**  
**26/34/23**  
Job Ticket: 37600      **DST#: 2**  
Test Start: 2010.03.25 @ 10:00:00

## 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 <sup>3</sup> /d)
		0.00	0.00	0.00

