

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

WIGINA

Form ACO-1
October 2008
Form Must Be Typed

8/18/12

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5278
Name: EOG Resources, Inc.
Address 1: 3817 NW Expressway, Suite 500
Address 2: _____
City: Oklahoma City State: OK Zip: 73112 + 1483
Contact Person: Sheila Rogers
Phone: (405) 246-3236
CONTRACTOR: License # 34000
Name: Kenai Mid-Continent, Inc.
Wellsite Geologist: _____
Purchaser: N/A

KCC
AUG 18 2010
CONFIDENTIAL

Designate Type of Completion:
 New Well _____ Re-Entry _____ Workover _____
_____ Oil _____ SWD _____ SIOW
_____ Gas _____ ENHR _____ SIGW
_____ CM (Coal Bed Methane) _____ Temp. Abd.
 Dry _____ Other _____
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
_____ Deepening _____ Re-perf. _____ Conv. to Enh. _____ Conv. to SWD
_____ Plug Back: _____ Plug Back Total Depth
_____ Commingled _____ Docket No.: _____
_____ Dual Completion _____ Docket No.: _____
_____ Other (SWD or Enh.?) _____ Docket No.: _____
6/2/2010 6/8/2010 P&A 6/9/2010
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

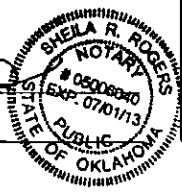
API No. 15 - 189-22734-00-00
Spot Description: _____
N2 SE SE SE Sec. 18 Twp. 35 S. R. 36 East West
425' Feet from North / South Line of Section
330' Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Stevens
Lease Name: Helen Well #: 18 #1
Field Name: Wildcat
Producing Formation: N/A
Elevation: Ground: 3063' Kelly Bushing: 3075'
Total Depth: 7100' Plug Back Total Depth: N/A
Amount of Surface Pipe Set and Cemented at: 1700' 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 PAUJ 8-31-10
(Data must be collected from the Reserve Pit)
Chloride content: 4,000 ppm Fluid volume: 1,000 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 of 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: [Signature]
Title: Drilling Engineer Advisor Date: 8/18/2010
Subscribed and sworn to before me this 18th day of August
20 10.
Notary Public: Sheila R Rogers
Date Commission Expires: 7-1-13



KCC Office Use ONLY
 Letter of Confidentiality Received 8/18/10 - 8/18/12
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

RECEIVED

AUG 20 2010

KCC WICHITA

Operator Name: EOG Resources, Inc. Lease Name: Helen Well #: 18 #1
 Sec. 18 Twp. 35 S. R. 36 East West County: Stevens

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Dual Spaced Neutron Spectral Density Microlog, Array Compensated True Resistivity Log, Borehole Compensated Sonic Array Quality Log, Microlog	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Attached
---	--

KCC
AUG 18 2010
CONFIDENTIAL

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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'	Midcon-2 PP	300	See Attached
					Prem Plus	200	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	N/A			

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
	N/A		

TUBING RECORD: Size: <u>N/A</u> Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr. <u>Dry, plugged and abandoned 6/9/2010</u>		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input checked="" type="checkbox"/> Other (Specify) <u>Dry, P&A 6/9/2010</u>	PRODUCTION INTERVAL: _____ _____
---	--	--

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

RECEIVED
AUG 20 2010
KCC, WICHITA

ACO-1 Completion Report

Well Name : HELEN 18 #1

FORMATION	TOP	DATUM
BASE OF HEEBNER	4305	-1230
LANSING	4600	-1525
MARMATON	4978	-1903
CHEROKEE	5480	-2405
MORROW	5964	-2889
CHESTER	6475	-3400
ST GENEVIEVE	6700	-3625

KCC
AUG 18 2010
CONFIDENTIAL

RECEIVED
AUG 20 2010
KCC WICHITA

KCC
AUG 18 2010
CONFIDENTIAL Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 348223		Ship To #: 2786610		Quote #:		Sales Order #: 7410572	
Customer: EOG RESOURCES INC EBUSINESS				Customer Rep: Rogers, Sheila			
Well Name: Helen			Well #: 18#1		API/UWI #:		
Field:		City (SAP): HUGOTON		County/Parish: Stevens		State: Kansas	
Contractor: ABERCROMBIE			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: 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 #
CARRILLO, EDUARDO Carrillo	8.0	371263	DEETZ, DONALD E	8.0	389855	MATA, ADOLFO V	2.0	419999
TORRES, CLEMENTE	8.0	344233						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10240236	50 mile	10240245	50 mile	10244148	50 mile	10744298C	50 mile
10924982	50 mile	10988832	50 mile	11133699	50 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
6-2-10	4.5	1	6-3-10	3.5				

TOTAL *Total is the sum of each column separately*

Job				Job Times			
Formation Name	Top	Bottom		Date	Time	Time Zone	
Formation Depth (MD)				Called Out	02 - Jun - 2010	17:30	CST
Form Type		BHST		On Location	02 - Jun - 2010	19:30	CST
Job depth MD	1704. ft	Job Depth TVD	1704. ft	Job Started	02 - Jun - 2010	00:00	CST
Water Depth		Wk Ht Above Floor	3. ft	Job Completed	02 - Jun - 2010	00:00	CST
Perforation Depth (MD)	From	To		Departed Loc	02 - Jun - 2010	00:00	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					1704.		
Surface Casing	Unknown		8.625	8.097	24.				1704.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CENTRALIZER ASSY - API - 8-5/8 CSG X	12	EA		
CLP, LIM, 8 5/8, FRICT, WTH DOGS	2	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		
KIT, HALL WELD-A	1	EA		
PLUG, CMTG, TOP, 8 5/8, HWE, 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	8 5/8	1	h
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	8 5/8	1	h
Stage Tool										Centralizers	8 5/8	12	h

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%

RECEIVED
AUG 20 2010
KCC WICHITA

KCC
 AUG 18 2010
 CONFIDENTIAL

Cementing Job Summary

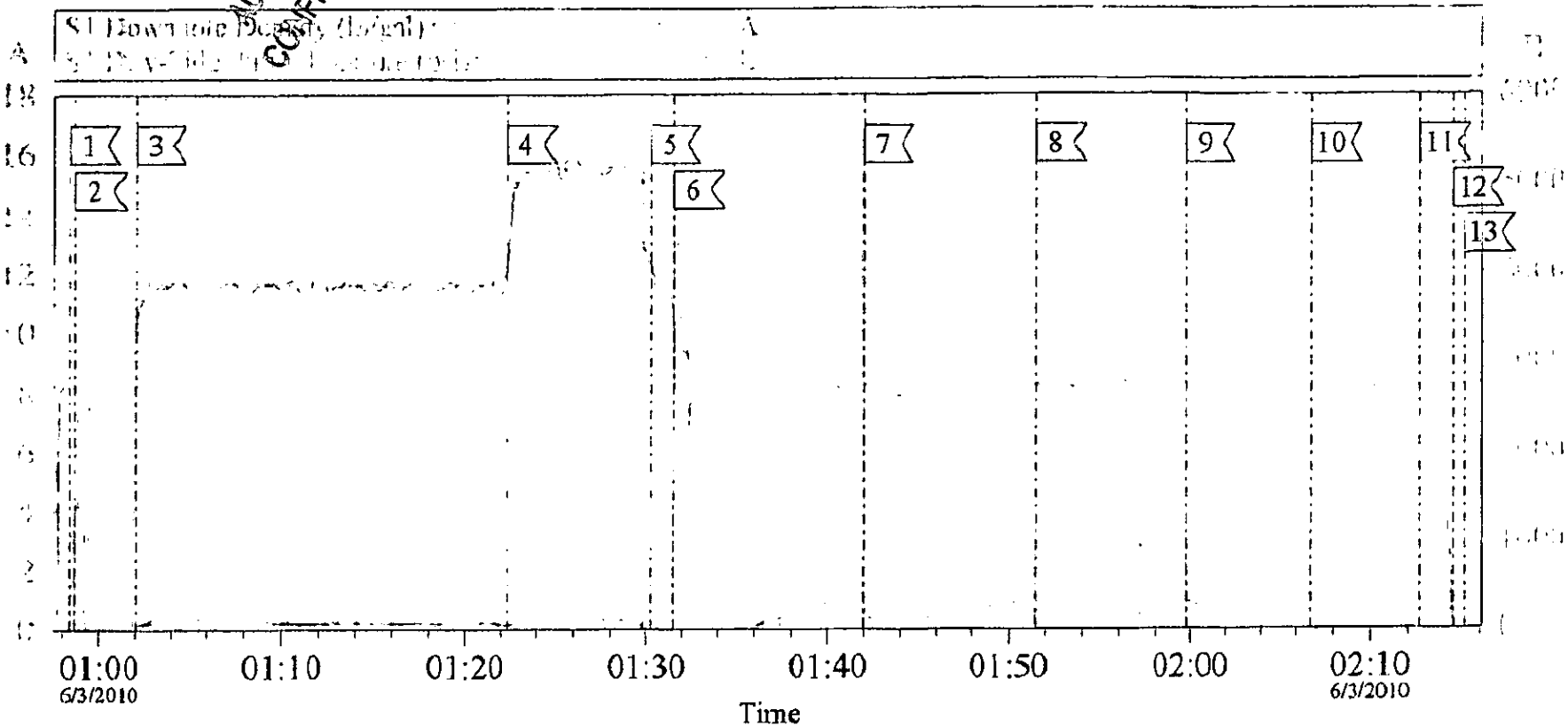
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty			
Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Mid-Con 2 Standard	MIDCON-2 CEMENT STANDARD - SBM (15078)	300.0	sacks	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	CMT - STANDARD CEMENT (100003684)	200.0	sacks	15.6	1.2	5.22		5.22
	94 lbm	CMT - STANDARD - CLASS A REG OR TYPE I, BULK (100003684)							
	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	
Calculated Values			Pressures			Volumes			
Displacement	105	Shut In: Instant		Lost Returns	0	Cement Slurry	201	Pad	
Top Of Cement	surface	5 Min		Cement Returns	70	Actual Displacement	105	Treatment	
Frac Gradient		15 Min		Spacers	0	Load and Breakdown		Total Job	306
Rates									
Circulating	8	Mixing	7	Displacement	9	Avg. Job	8		
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
 AUG 20 2010
 KCC WICHITA

KCC
AUG 1 8 2010
CONFIDENTIAL

THE WICHITA SOUTHERN RAILROAD COMPANY

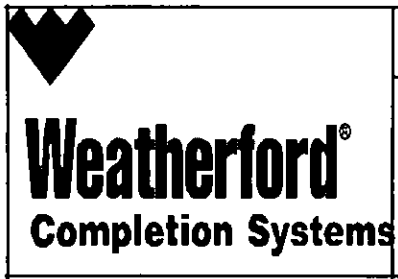
RECEIVED
AUG 20 2010
KCC WICHITA



1	start job	00:58:21	2	pressure test	00:58:41	3	pump lead cement	01:02:02
4	pump tail cement	01:22:17	5	drop plug	01:30:13	6	pump displacement	01:31:32
7	start staging	01:41:58	8	2nd stage	01:51:33	9	3rd stage	01:59:50
10	4th stage	02:06:52	11	bump plug	02:12:43	12	check floats	02:14:35
13	end job	02:15:10						

Customer: Job Date: 03-Jun-2010 Sales Order #: 7410572

OptiCem v6.4.7
03-Jun-10 02:17



DRILL STEM TEST REPORT

EOG Resources, Inc.
 3817 NW Expressway STE 500 OKC, OK 73114
 ATTN: Jackie Sessions

Helen 18-1
 18/35/36
 Job Ticket: 37543
 Test Start: 2010.06.07 @ 07:07:40

KCC
 AUG 18 2010
 CONFIDENTIAL
 DST#: 1

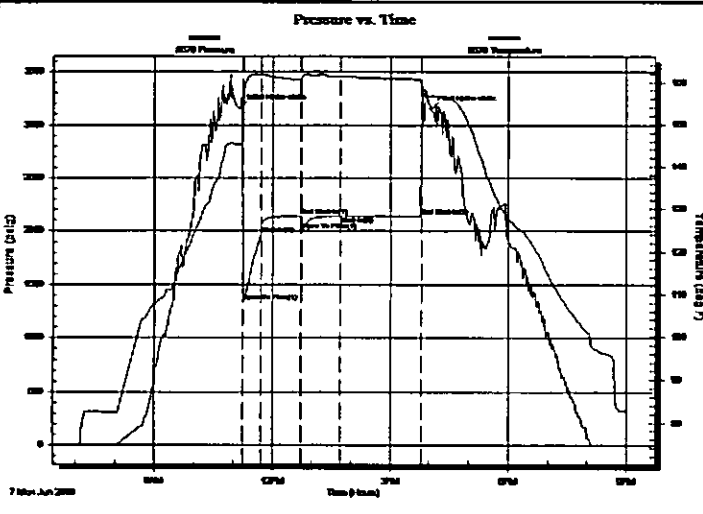
GENERAL INFORMATION:

Formation: **Upper St. Louis**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 11:14:27
 Time Test Ended: 21:02:27
 Interval: **6810.00 ft (KB) To 6826.00 ft (KB) (TVD)**
 Total Depth: **6874.00 ft (KB) (TVD)**
 Hole Diameter: **7.78 inches** Hole Condition: **Good**

Test Type: **Conventional Straddle**
 Tester: **Chris Hagman**
 Unit No: **34**
 Reference Elevations: **3074.00 ft (KB)**
3063.00 ft (CF)
 KB to GR/CF: **11.00 ft**

Serial #: **8676** Inside
 Press@RunDepth: **2139.82 psig @ 6815.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.06.07** End Date: **2010.06.07** Last Calib.: **2010.06.07**
 Start Time: **07:07:40** End Time: **21:02:27** Time On Btm: **2010.06.07 @ 11:10:27**
 Time Off Btm: **2010.06.07 @ 16:02:08**

TEST COMMENT: IF: BOB 30 sec., strong dieing blow
 IS: No blow back
 FF: BOB 1 min., strong dieing blow
 FS: No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3154.74	145.22	Initial Hydro-static
4	1334.83	147.18	Open To Flow (1)
33	1966.34	161.72	Shut-in(1)
94	2139.34	160.49	End Shut-in(1)
95	2006.86	160.47	Open To Flow (2)
153	2139.82	161.28	Shut-in(2)
277	2141.48	160.65	End Shut-in(2)
292	3153.47	156.65	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
4544.00	100% water	60.36

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

RECEIVED
 AUG 20 2010
 KCC WICHITA



DRILL STEM TEST REPORT

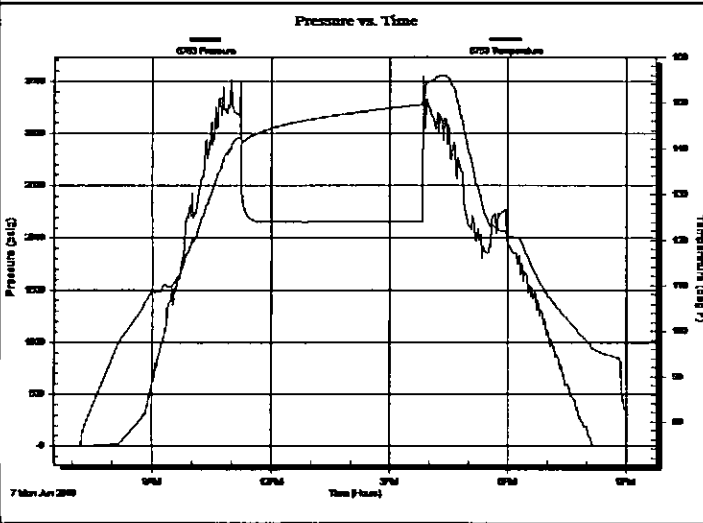
EOG Resources, Inc. **Helen 18-1**
 3817 NW Expressway STE 500 OKC, OK 73114 **18/35/36**
 Job Ticket: 37543 **DST#: 1**
 ATTN: Jackie Sessions Test Start: 2010.06.07 @ 07:07:40

GENERAL INFORMATION:

Formation: **Upper St. Louis**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Straddle**
 Time Tool Opened: **11:14:27**
 Tester: **Chris Hagman**
 Time Test Ended: **21:02:27**
 Unit No: **34**
 Interval: **6810.00 ft (KB) To 6826.00 ft (KB) (TVD)**
 Reference Elevations: **3074.00 ft (KB)**
 Total Depth: **6874.00 ft (KB) (TVD)**
3063.00 ft (CF)
 Hole Diameter: **7.78 inches** Hole Condition: **Good**
 KB to GR/CF: **11.00 ft**

Serial #: 6753 Below (Straddle)
 Press@RunDepth: psig @ **6842.00 ft (KB)**
 Capacity: **8000.00 psig**
 Start Date: **2010.06.07** End Date: **2010.06.07** Last Calib.: **2010.06.07**
 Start Time: **07:12:54** End Time: **21:05:03** Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB 30 sec., strong dieing blow
 IS: No blow back
 FF: BOB 1 min., strong dieing blow
 FS: No blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
4544.00	100% water	60.36

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

RECEIVED
 AUG 20 2010
 KCC WICHITA



**Weatherford®
Completion Systems**

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources, Inc.

Helen 18-1

3817 NW Expressway STE 500 OKC, OK 73114

18/35/36

ATTN: Jackie Sessions

Job Ticket: 37543

DST#: 1

Test Start: 2010.06.07 @ 07:07:40

Tool Information

Drill Pipe:	Length: 6421.00 ft	Diameter: 3.80 inches	Volume: 90.07 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: 371.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 150000.0 lb
			<u>Total Volume: 91.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 108000.0 lb
Depth to Top Packer:	6810.00 ft			Final 130000.0 lb
Depth to Bottom Packer:	6878.00 ft			
Interval between Packers:	68.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:
Graphs did not match, good straddle

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			6784.00	
Shut In Tool	5.00			6789.00	
Sampler	3.00			6792.00	
Hydraulic tool	5.00			6797.00	
Jars	5.00			6802.00	
Safety Joint	3.00			6805.00	
Packer	5.00			6810.00	27.00 Bottom Of Top Packer
Packer - Shale	4.00			6814.00	
Stubb	1.00			6815.00	
Recorder	0.00	8676	Inside	6815.00	
Recorder	0.00	8374	Inside	6815.00	
Perforations	10.00			6825.00	
Blank Off Sub	1.00			6826.00	
Packer - Shale	4.00			6830.00	
Stubb	1.00			6831.00	
Perforations	10.00			6841.00	
Change Over Sub	1.00			6842.00	
Recorder	0.00	6753	Below	6842.00	
Drill Pipe	32.00			6874.00	
Change Over Sub	1.00			6875.00	
Bullnose	3.00			6878.00	68.00 Anchor Tool
Total Tool Length:	95.00				



Weatherford®
Completion Systems

DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources, Inc.

Helen 18-1

3817 NW Expressway STE 500 OKC, OK 73114

18/35/36

ATTN: Jackie Sessions

Job Ticket: 37543

DST#: 1

Test Start: 2010.06.07 @ 07:07:40

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:

85000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.98 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4544.00	100% water	60.361

Total Length: 4544.00 ft Total Volume: 60.361 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.069@93F=85,000ppm

Sampler=4000ml Water @ 200psi



Weatherford®
Completion Systems

DRILL STEM TEST REPORT

GAS RATES

EOG Resources, Inc.

Helen 18-1

3817 NW Expressway STE 500 OKC, OK 73114

18/35/36

ATTN: Jackie Sessions

Job Ticket: 37543

DST#: 1

Test Start: 2010.06.07 @ 07:07:40

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

