

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5249  
Name: OSBORN HEIRS COMPANY  
Address 1: P.O. BOX 17968  
Address 2: \_\_\_\_\_  
City: SAN ANTONIO State: TX Zip: 78217 + \_\_\_\_\_  
Contact Person: Mary J. Castoreno  
Phone: ( 210 ) 826-0700 ext 213  
CONTRACTOR: License # 34000  
Name: Kenai Mid-Continent  
Wellsite Geologist: none  
Purchaser: BP

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: EOG Resources, Inc. drilled well. Osborn Heirs Company completed well.

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

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

- Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

4-17-2011	4-24-2011	12-02-2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 055-22099 - 00 - 00

Spot Description: \_\_\_\_\_  
N2 - NE - SE - NE Sec. 12 Twp. 25 S. R. 33  East  West  
1,510 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: Finney

Lease Name: Johnson Trust Well #: 12 # 1

Field Name: Hugoton/Panoma

Producing Formation: Chase/Council Grove

Elevation: Ground: 2886 Kelly Bushing: 2898

Total Depth: 5100 Plug Back Total Depth: 4490

Amount of Surface Pipe Set and Cemented at: 1738 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 3401 Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls  
Dewatering method used: evaporation

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

Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

RECEIVED  
MAR 26 2012

KCC WICHITA

**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.

AFFIDAVIT

I am the affiant and I hereby certify that 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: Mary J. Castoreno  
Title: Regulatory Specialist Date: March 23, 2012

KCC Office Use ONLY

- Letter of Confidentiality Received  
Date: 3.26.12 - 3.26.13  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Dog Date: 4/17/12

Operator Name: OSBORN HEIRS COMPANY Lease Name: Johnson Trust Well #: 12 # 1  
 Sec. 12 Twp. 25 S. R. 33  East  West County: Finney

**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 complete copy of all Electric Wire-line 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 type="checkbox"/> Yes <input checked="" 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Spectral Density Dual Spaced Neutron Microlog</b> <b>Array Compensated Resistivity Log</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Stone Corral</td> <td>1853'</td> <td>(1045')</td> </tr> <tr> <td>Chase</td> <td>2503'</td> <td>(395')</td> </tr> <tr> <td>Council Grove</td> <td>2882'</td> <td>(16')</td> </tr> <tr> <td>Lansing</td> <td>3935'</td> <td>(-1037')</td> </tr> <tr> <td>Marmaton</td> <td>4481'</td> <td>(-1583')</td> </tr> <tr> <td>Atoka</td> <td>4690'</td> <td>(-1792')</td> </tr> <tr> <td>Morrow Sand</td> <td>4899'</td> <td>(-2001')</td> </tr> </table>	Name	Top	Datum	Stone Corral	1853'	(1045')	Chase	2503'	(395')	Council Grove	2882'	(16')	Lansing	3935'	(-1037')	Marmaton	4481'	(-1583')	Atoka	4690'	(-1792')	Morrow Sand	4899'	(-2001')
Name	Top	Datum																							
Stone Corral	1853'	(1045')																							
Chase	2503'	(395')																							
Council Grove	2882'	(16')																							
Lansing	3935'	(-1037')																							
Marmaton	4481'	(-1583')																							
Atoka	4690'	(-1792')																							
Morrow Sand	4899'	(-2001')																							

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	24.00	1738	Varicem/Swift Cem	500	3%CaCl <sub>2</sub> 1% WG-17 .25 ppg FLAKE
Production	7-7/8	5-1/2	15.50	4767	50/50 Pozmix	350	5% Seal 3ppg Seal .% Hated dal
Stage Collar	7-7/8	5-1/2	15.50	3401	Class A	430	.5% Hated-322 .25 ppg Flake

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	4572'-4578'	1500 gallons 15% gelled HCL Acid	4572'-4578'
	4520 CIBP		
4	2550'-2564'; 2610'-2618'; 2622'-2630'; 2674'-2680'; 2690'-2696'; 2810'-2830'; 2856'-2862'; 2872'-2876'	{ Acidized with 3000 gallons 7-1/2% HCL { Fraced with 12,390 gallons gel & 256,239 scf N <sub>2</sub> and 50,200 lbs. sand	

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>2923</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
----------------	--------------------	---------------------	------------	--------------------------------------------------------------------------------

Date of First, Resumed Production, SWD or ENHR. <u>February 15, 2012</u>	Producing Method: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____				
Estimated Production Per 24 Hours	Oil Bbls. <u>0</u>	Gas Mcf <u>28</u>	Water Bbls. <u>0</u>	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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
-------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 304306	Ship To #: 2850970	Quote #:	Sales Order #: 8131849
Customer: OSBORN HEIRS COMPANY		Customer Rep: Cunningham, Gary	
Well Name: Johnson Trust	Well #: 12 #1	API/UWI #: 15-055-? 22099.00.00	
Field:	City (SAP): GARDEN CITY	County/Parish: Finney	State: Kansas
Legal Description: Section 2 Township 2S Range 38W			
Contractor: Kenai		Rig/Platform Name/Num: 58	
Job Purpose: Cement Multiple Stages			
Well Type: Development Well		Job Type: Cement Multiple Stages	
Sales Person: HESTON, MYRON		Srvc Supervisor: WOODROW, JOHN	MBU ID Emp #: 105848

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEETZ, DONALD E	11	389855	FARNUM, GORDON	8	477892	GOMEZ, OSCAR	11	490448
LEE, SEITH Adam	16	483600	MATA, ADOLFO V	2	419999	WOODROW, JOHN Phillip	16	105848

### 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
04/27/11	12	3						
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
Form Type	BHST	130 degF	On Location	27 - Apr - 2011	09:00	CST
Job depth MD	4771. ft	Job Depth TVD	Job Started	27 - Apr - 2011	13:57	CST
Water Depth		Wk Ht Above Floor	Job Completed	27 - Apr - 2011	20:20	CST
Perforation Depth (MD) From		To	Departed Loc	27 - Apr - 2011	22:00	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
Multiple Stage Cementer								3398.	3400.		
Production Hole				7.875				1728.	5000.		
Production Casing	Used		5.5	4.95	15.5	8 RD (LT&C)	J-55		5000.		
Surface Casing	Used		8.625	8.097	24.	8 RD (ST&C)	J-55		1728.		

### Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,FLOAT,5 1/2 8RD,2 3/4 SUPER SEAL	1	EA		
CMTR,TY P ES-II,5-1/2 LG 8RD 14-17 LBS/F	1	EA		RECEIVED
PLUG SET,FREE FALL,5-1/2 8RD 13-23 PPF	1	EA		
CENTRALIZER ASSY - TURBO - API -	20	EA		MAR 26 2012
CLAMP - LIMIT - 5-1/2 - HINGED -	2	EA		
BSKT,CEM,5 1/2 CSG X 7 7/8,8 3/4 H	2	EA		KCC WICHITA
KIT,HALL WELD-A	2	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	

**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	Water Spacer		10.00	bbl	8.33	.0	.0	6.0	
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	10.00	bbl	8.4	.0	.0	6.0	
3	1st Stage Scavenger Slurry	POZ PREMIUM 50/50 - SBM (12302)	25.0	sacks	10.	5.81	37.89	6.0	37.89
	5 %	POTASSIUM CHLORIDE 7% (100001585)							
	6 lbm	KOL-SEAL, BULK (100064233)							
	5 %	CAL-SEAL 60, BULK (100064022)							
	0.5 %	HALAD(R)-322, 50 LB (100003646)							
	0.5 %	D-AIR 3000 (101007446)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	37.893 Gal	FRESH WATER							
4	1st Stage Tail Slurry	POZ PREMIUM 50/50 - SBM (12302)	200.0	sacks	13.5	1.67	7.56	6.0	7.56
	5 %	POTASSIUM CHLORIDE 7% (100001585)							
	5 %	CAL-SEAL 60, BULK (100064022)							
	6 lbm	KOL-SEAL, BULK (100064233)							
	0.5 %	HALAD(R)-322, 50 LB (100003646)							
	0.5 %	D-AIR 3000 (101007446)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	7.556 Gal	FRESH WATER							
5	Water & Mud Displacement		112.00	bbl	8.33	.0	.0	6.0	

**Stage/Plug #: 2**


Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Water Pre-Flush		10.00	bbl	8.33	.0	.0	6.0	
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	10.00	bbl	8.4	.0	.0	6.0	
3	2nd Stage Lead Slurry	MIDCON-2 CEMENT STANDARD - SBM (15078)	180.0	sacks	11.1	3.32	20.1	6.0	20.1
	0.1 %	WG-17, 50 LB SK (100003623)							
	10 lbm	KOL-SEAL, BULK (100064233)							
	0.5 %	HALAD(R)-322, 50 LB (100003646)							
	20.099 Gal	FRESH WATER							
4	2nd Stage Tail Slurry	CMT - STANDARD CEMENT (100003684)	280.0	sacks	15.6	1.18	5.15	6.0	5.15
	94 lbm	CMT - STANDARD - CLASS A REG OR TYPE I, BULK (100003684)							
	0.5 %	HALAD(R)-322, 50 LB (100003646)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	5.154 Gal	FRESH WATER							

**RECEIVED  
MAR 26 2012**

**KCC WICHITA**

**Stage/Plug #: 2**

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
---------	------------	------------	-----	---------	------------------------	---------------------------	------------------	--------------	------------------------

<b>Stage/Plug #: 2</b>										
5	2% KCL DISPLACEMENT				81.00	bbbl	8.33	.0	.0	6.0
0.12 gal/bbl		CLAYFIX 3, 5 GAL PAIL (101810105)								
<b>Calculated Values</b>			<b>Pressures</b>			<b>Volumes</b>				
Displacement	112	Shut In: Instant		Lost Returns		Cement Slurry		249	Pad	
Top Of Cement	GL	5 Min		Cement Returns		Actual Displacement		112	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job		
<b>Rates</b>										
Circulating	6		Mixing		6		Displacement		6	
Cement Left In Pipe		Amount	42 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID			
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature 						

RECEIVED  
MAR 26 2012  
KCC WICHITA

HALLIBURTON

**JOB LOG**

COMPANY

Osborn Heirs

TICKET #

8131849

Date	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate		Press.(PSI)		Job Description / Remarks
				N2	CSG.	Tbg		
04/27/11	08:00							Job Ready
04/27/11	03:30							Called out for Job
	19:00							Load Equipment / and Materials for Job / JSA
	19:25							Pre Convoy Safety Meeting
	05:00							Journey Management / Crew Leave Yard
	09:30							Arrive on Location / Muddy Location
	10:00							Call Customer to check for Dozer to Pull Equip. In
	11:00							Have pre job site assesment / Spot Equipment
								Have Pre Rig Up Safety Meeting
	12:00							Get W/O Signed & Go Over Cmt. With CO. Man
								Rig Up Equipment
	12:00							Casing on Bottom 4771 ft. J 55 15.5# Circulate hole
								Until we are Finished Rigging Up
								D.V. Tool @ 3408 Ft.
	13:40							Hold Pre Job Safety Meeting
	13:45							Through Circulating
								Hook Up 5 1/2 P/C To Halliburton
								( 1st Stage Job Procedure )
	13:57					5000		Test Pump & Lines
	14:01	5.0	10.0			250		Pump 10 bbls. F/W Spacer
	14:04	5.0	10.0			250		Pump 10 bbls. Mud Flush III
	14:06	6.0	25.0			350		Mix 25 sks Scavenger Cmt. @ 10#/gal
	14:09	6.0	59.0			250		Start Mixing 200 sks Tail Cmt. @ 13.5#/gal
	14:20					150-0		Through Mixing Cmt. / Shut Down
	14:22							Stuff DV. Shut Off Plug
	14:24	6.0				150		Start Displacing with 30 bbls. 2% Cla-Fix Water
								From FC to D.V. Tool / Wash Up on Top Of Plug
								Start Displacing With Mud From D.V. Tool to Surface
		6.5	70.0			200-350		Have 70 bbls. Out / Displacement Reached Cmt.
			100.0					Have 100 bbls. Out / Slow Rate To 3.5 BPM
	14:45		112.0			580		Max Lift Pressure Before Landing Plug
	14:46					1200#		Bump Plug / Pressure Up 500# Over PLP
								Check Floats
								Got 1 bbl Back / Floats Holding
	14:50							Drop D.V. Tool Opening Device
	14:51							Load Closing Plug
	15:10	5.0				680-150		Open D.V. Tool / Establish Circulation
	15:20							Hook Up To Rig Pump / Circulate 4 hrs
								( 2nd Stage Job Procedure )
	19:15	3.0	5.0					Plug RH & MH With 30 sks Cmt. @ 11.6#/gal
	19:24	5.0	10.0			250		Pump 10 bbls. F/W Ahead\
	19:26	5.0	10.0			250		Pump 10 bbls. Mud Flush III
	19:29	6.0	100.0			225		Start Mixing 180 sks Lead Cmt. @ 11.1#/gal
	19:51	6.0	59.0			280		Start Mixing 280 sks Tail Cmt. @ 15.6#/gal
	20:01					280-0		Through Mixing Cmt. / Shut Down
	20:02							Release D.V. Tool Closing Plug
	20:03	6.0				150		Start Displacement With 2% Cla-Fix Water

( See Job Log Cont. )

RECEIVED

MAR 26 2012

KCC WICHITA



## Work Order Contract

Order Number

8131849

TO: HALLIBURTON ENERGY SERVICES, INC. - YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICE PERSONNEL TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO CUSTOMER LISTED BELOW AND DELIVER AND SELL PRODUCTS, SUPPLIES AND MATERIALS FOR THE PURPOSE OF SERVICING:

Well No. 12 #1	Farm or Lease Johnson Trust	County Finney	State Kansas	Well Permit Number 15-055-7
Customer OSBORN HEIRS COMPANY		Well Owner		Job Purpose Cement Multiple Stages

THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

**A. CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton Energy Services, Inc. (hereinafter "Halliburton").

**B. PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices of Halliburton are exclusive of any federal, state or municipal taxes which may be imposed on the sale or use of any materials, products or supplies furnished or services performed. Customer agrees to pay such taxes in addition to the prices in Halliburton's price list. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any amount of attorney fees set out herein are reasonable and necessary.

**RELEASE AND INDEMNITY** - Customer agrees to RELEASE Halliburton Group from any and all liability for any and all damages whatsoever to property of any kind owned by, in the possession of, or leased by Customer and those persons and entities Customer has the ability to bind by contract or which are co-interest owners or joint ventures with Customer. Customer also agrees to DEFEND, INDEMNIFY, AND HOLD Halliburton Group HARMLESS from and against any and all liability, claims, costs, expenses, attorney fees and damages whatsoever for personal injury, illness, death, property damage and loss resulting from loss of well control, services to control a wild well whether underground or above the surface, reservoir subsidence, gas migration, including loss of oil, gas, other mineral substances or water, surface damage arising from underground damage, damage to or loss of the well bore, subsurface trespass or any action of the nature thereof, fire, explosion, subsurface pressure, radioactivity, and pollution and contamination and its cleanup and control.

**CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS** obligations will apply even if the liability and claims are caused by the sole, concurrent, active or passive negligence, fault, or strict liability of one or more members of the Halliburton Group, the unseaworthiness of any vessel or any defect in the data, products, supplies, materials or equipment furnished by any member or members of the Halliburton Group whether in the design, manufacture, maintenance or marketing thereof or from a failure to warn of such defect. "Halliburton Group" is defined as Halliburton Energy Services, Inc., its parent, subsidiary, and affiliated companies, insurers and subcontractors and all its/their officers, directors, employees, consultants and agents. **CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS** obligations apply whether the personal injury, illness, death, property damage or loss is suffered by one or more members of the Halliburton Group, Customer, or any other person or entity. Customer agrees to support such obligations assumed herein with liability insurance with limits of not less than \$500,000. Customer agrees to name Halliburton Group as named additional insured on all of its general liability policy(s). Customer agrees that its liability under this Contract is not limited by the amounts of its insurance coverage, except where and as may be required by applicable local law for the provisions of this Contract to be enforceable.

**D. EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton Group equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the current published replacement rate, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton Group. Customer shall be responsible for damage to or loss of Halliburton group equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton group equipment damaged by corrosion or abrasion due to well effluents.

**E. LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this Contract and that same are free from defects in workmanship and materials for thirty (30) days from the date of delivery. **THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE.** Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, **HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON GROUP.** Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton Group shall not be liable for and **CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to or caused by the active or passive negligence, fault or strict liability of any member or members of Halliburton Group.** Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

**F. GOVERNING LAW** - The validity, interpretation and construction of this Contract shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.


**3. DISPUTE RESOLUTION** Except for Halliburton's statutory rights with regard to collection of past due invoices for services or materials, including the Contractor's statutory rights for perfection and enforcement of mechanics' and materialmen's liens, Customer and Halliburton agree that any dispute that may arise out of the performance of this Contract shall be resolved by binding arbitration by a panel of three arbitrators under the rules of the American Arbitration Association. The arbitration will take place in Houston, TX.

**4. SEVERABILITY** - If any provision or part thereof of this Contract shall be held to be invalid, void, or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract which can be given effect, without the invalid provision or part thereof, and to this end, the provisions of this Contract are declared to be severable. Customer and Halliburton agree that any provision of this Contract that is unenforceable or void under applicable law will be modified to achieve the intent of the parties hereunder to the greatest extent allowed by applicable law.

**MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this Contract, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 10200 Bellaire Blvd, Houston, TX 77072-5289.

**HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. I AM SIGNING THIS WORK ORDER CONTRACT WITH THE UNDERSTANDING THAT ITS TERMS AND CONDITIONS WILL NOT APPLY TO THE EXTENT THEY CONFLICT WITH TERMS AND CONDITIONS OF A SIGNED MASTER SERVICE CONTRACT BETWEEN THE PARTIES.**

Customer Acceptance of Terms and Conditions, Materials and Services

  
CUSTOMER Authorized Signatory

#127/11  
Date

RECEIVED

MAR 26 2012

KCC WICHITA



The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2849244	Quote #:	Sales Order #: 8110584
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Knox, Mike	
Well Name: Johnson Trust	Well #: 12 #1	API/UWI #: 15-055-22099-00-00	
Field:	City (SAP): GARDEN CITY	County/Parish: Finney	State: Kansas
Contractor: Kenai	Rig/Platform Name/Num: 58		
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DRAKE, BRANDON	Srvc Supervisor: CARRILLO, EDUARDO	MBU ID Emp #: 371263	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BERUMEN, EDUARDO	4.0	267804	CARRILLO, EDUARDO Carrillo	4.0	371263	DEETZ, DONALD E	4.0	389855
RODRIGUEZ, EDGAR Alejandro	4.0	442125	TORRES, CLEMENTE	4.0	344233			

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025025	50 mile	10243558	50 mile	10244148	50 mile	10286731	50 mile
10744298C	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
4/18/11	4.0	3.0						

TOTAL Total is the sum of each column separately

### Job

### Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	18 - Apr - 2011	13:30	CST
Form Type		BHST	Job Started	18 - Apr - 2011	15:30	CST
Job depth MD	1742. ft	Job Depth TVD	Job Completed	18 - Apr - 2011	16:37	CST
Water Depth		Wk Ht Above Floor	Departed Loc	18 - Apr - 2011	18:02	CST
Perforation Depth (MD)	From	To		18 - Apr - 2011	19:30	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	8.097	24.				1732.		

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

Description	Qty	Qty uom	Depth	Supplier
CENTRALIZER ASSY - API - 8-5/8 CSG X	9	EA		
CLAMP - LIMIT - 8-5/8 - HINGED -	2	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		RECEIVED
PLUG,CMTG, TOP, 8 5/8, HWE, 7.20 MIN/8.09 MA	1	EA		
KIT, HALL WELD-A	1	EA		MAR 26 2012
SHOE, CSG, TIGER TOOTH, 8 5/8 IN 8RD	1	EA		
CLR, FLT, TROPHY SEAL, 8-5/8 8RD	1	EA		KCC WICHITA
AUTOFILL KIT, TROPHY SEAL	1	EA		

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	8 5/8	1	h	1742	Packer					Top Plug	8 5/8	1	h
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					centralizers	8 5/8	9	h
Insert Float	8 5/8	1	h	1697						Plug Container	8 5/8	1	h

Miscellaneous Materials												
Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty	Conc	%
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 <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)										
	5.218 Gal	FRESH WATER										
3	Displacement				108.00	bbl	8.33	.0	.0	.0		
Calculated Values			Pressures			Volumes						
Displacement	108	Shut In: Instant		Lost Returns		0	Cement Slurry		201	Pad		
Top Of Cement	surface	5 Min		Cement Returns		68	Actual Displacement		108	Treatment		
Frac Gradient		15 Min		Spacers		0	Load and Breakdown			Total Job 309		
Rates												
Circulating	10	Mixing		6		Displacement		10	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  
 MAR 26 2012  
 KCC WICHITA

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2849244	Quote #:	Sales Order #: 8110584
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Knox, Mike	
Well Name: Johnson Trust		Well #: 12 #1	API/UWI #:
Field:	City (SAP): GARDEN CITY	County/Parish: Finney	State: Kansas
Legal Description:			
Lat:		Long:	
Contractor: Kenai		Rig/Platform Name/Num: 58	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DRAKE, BRANDON		Srvc Supervisor: CARRILLO, EDUARDO	MBU ID Emp #: 371263

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	04/18/2011 13:30							Dispach Called Cement Crew Out For Job On E.O.G.
Pre-Job Safety Meeting	04/18/2011 13:44							
Pre-Convoy Safety Meeting	04/18/2011 14:00							Discuss Route to take and Hazards on the road
Arrive At Loc	04/18/2011 15:30							
Assessment Of Location Safety Meeting	04/18/2011 15:32							Rig Was Circulating Casing Was On Bottom
Pre-Rig Up Safety Meeting	04/18/2011 15:40							Discussed All Red Zones Went Over JSA
Rig-Up Completed	04/18/2011 16:00							
Start Job	04/18/2011 16:37							Ready for Halliburton
Test Lines	04/18/2011 16:38						2000.0	Hold for 1 minute
Pump Lead Cement	04/18/2011 16:44		6	158	158		250.0	Pumped 300 sks @ 11.4 ppg // = 158 bbls cmt // 300 x 2.96 = 888 CU/FT
Pump Tail Cement	04/18/2011 17:13		6	43	201		200.0	Pumped 200 sks @ 15.6 ppg // = 43 bbls cmt // 200 x 1.2 = 240 CU/FT
Drop Top Plug	04/18/2011 17:24							HWE
Pump Displacement	04/18/2011 17:25		10	108	309		475.0	Fresh Water 108 bbls
Stage Cement	04/18/2011 17:37							staged last 20 bbl
Bump Plug	04/18/2011 17:59							bumped plug @ 500 took to 1500

RECEIVED

MAR 26 2012

KCC WICHITA

Sold To #: 348223

Ship To #: 2849244

Quote #:

Sales Order #:

8110584

SUMMIT Version: 7.20.130

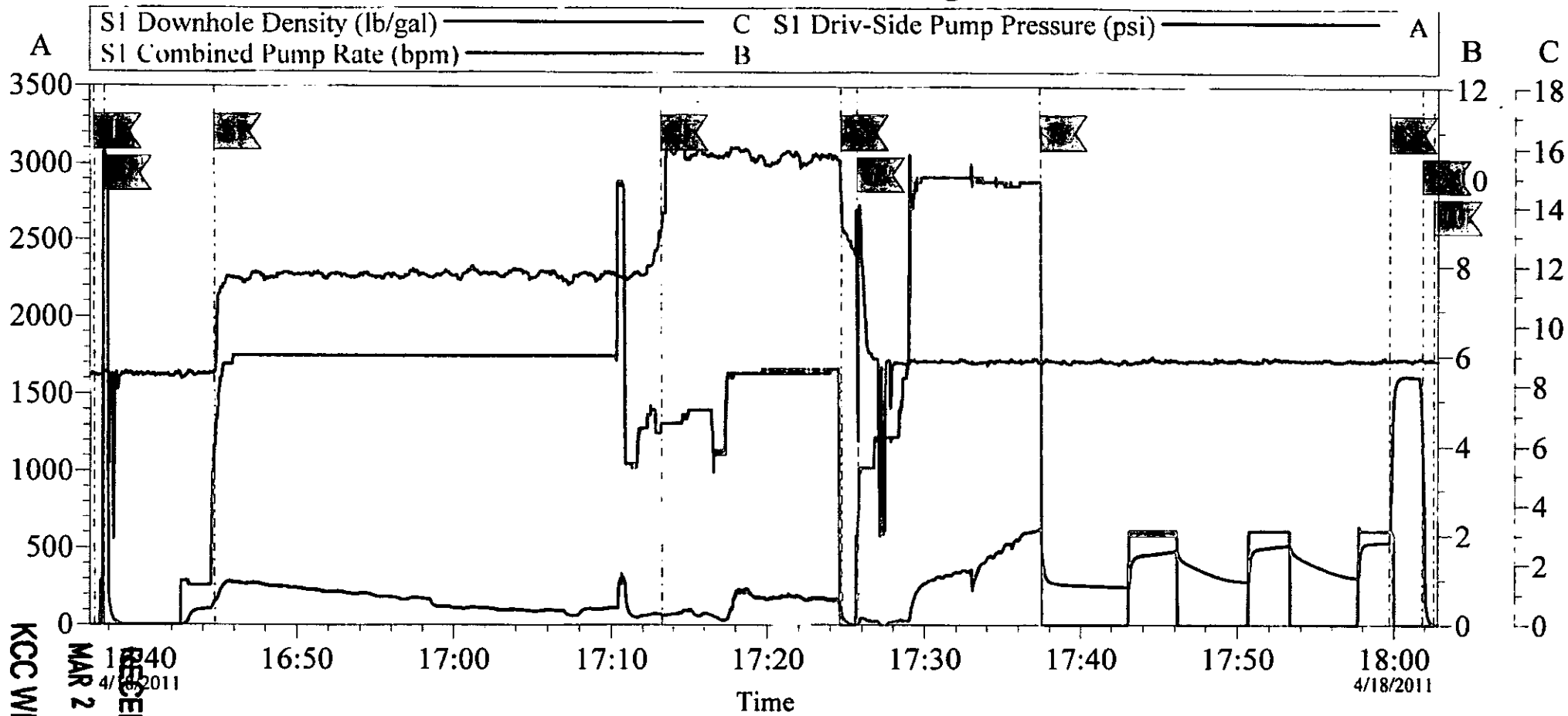
Monday, April 18, 2011 06:56:00

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Check Floats	04/18/2011 18:01							Floats held 3/4 bbl Back
End Job	04/18/2011 18:02							
Pre-Rig Down Safety Meeting	04/18/2011 18:05							Discuss Pinchpoint and Tripping Hazards
Rig-Down Completed	04/18/2011 19:00							
Crew Leave Location	04/18/2011 19:30							
Other	04/18/2011 19:31							THANK YOU FOR CHOOSING HALLIBURTON

RECEIVED  
MAR 26 2012  
KCC WICHITA

# E.O.G Johnson Trust # 12 # 1

## 8 5/8 Surface Casing

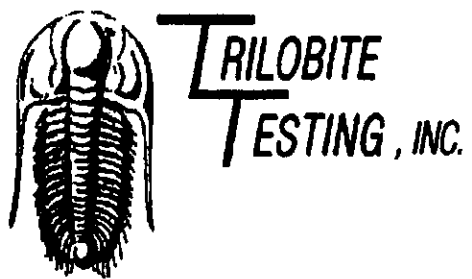


KCC WICHITA  
 MAR 26 2012  
 RECEIVED  
 4/9/2011

Local Event Log			
start job	16:37:08	pressure test	16:37:47
pump tail cement	17:13:15	drop plug	17:24:45
start staging	17:37:28	bump plug	17:59:43
end job	18:02:33	pump lead cement	16:44:44
		pump displacement	17:25:47
		check floats	18:01:51

Customer: E.O.G.	Job Date: 18-Apr-2011	Sales Order #: 8110584
Well Description: Jonson # 12 # 1	UWI:	

15.055.22099.00.00



### DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc.**  
3817 NW Expressway Oklahoma City Ok.  
73112+1483

ATTN: Mike K.

**12/25/33**

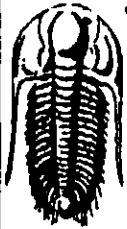
**Johnson Trust 12#1**

Start Date: 2011.04.23 @ 02:00:00  
End Date: 2011.04.23 @ 16:36:30  
Job Ticket #: 39425                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

EOG Resources Inc.  
Johnson Trust 12#1  
12/25/33  
DST # 2  
Ches ter  
2011.04.23

RECEIVED  
MAR 26 2012  
KCC WICHITA



**TRIOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

EOG Resources Inc.  
3817 NW Expressway Oklahoma City Ok.  
73112+1483  
ATTN: Mike K.

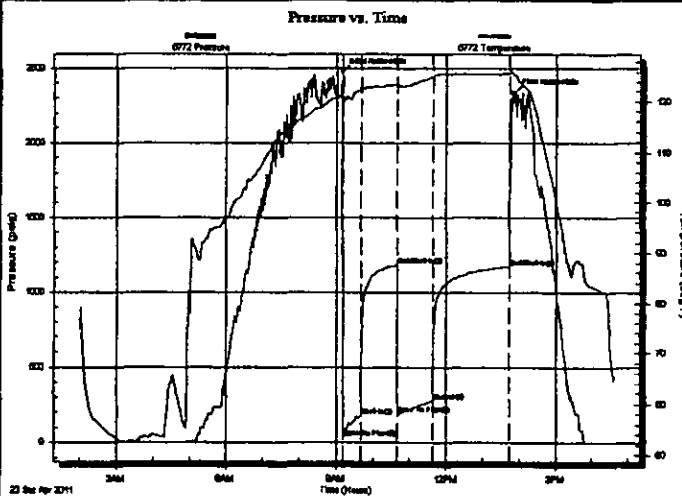
Johnson Trust 12#1  
12/25/33  
Job Ticket: 39425      DST#: 2  
Test Start: 2011.04.23 @ 02:00:00

## GENERAL INFORMATION:

Formation: **Chester**  
Deviated: **No Whipstock:**                      ft (KB)  
Time Tool Opened: 09:10:45  
Time Test Ended: 16:36:30  
Interval: **4908.00 ft (KB) To 4953.00 ft (KB) (TVD)**  
Total Depth: **4953.00 ft (KB) (TVD)**  
Hole Diameter: **7.78 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Harley Davidson**  
Unit No: **33**  
Reference Elevations: **2889.00 ft (KB)**  
**2877.00 ft (CF)**  
KB to GR/CF: **12.00 ft**

Serial #: **6772**      Inside  
Press@RunDepth: **274.28 psig @ 4911.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2011.04.23**      End Date: **2011.04.23**      Last Calib.: **2011.04.23**  
Start Time: **02:00:00**      End Time: **16:36:30**      Time On Btm: **2011.04.23 @ 09:09:00**  
Time Off Btm: **2011.04.23 @ 13:52:30**

TEST COMMENT: F- Weak building blow BOB, 29min.  
IS- No blow back.  
FF- Weak building blow 9" into bucket.  
FS- No blow back.



## PRESSURE SUMMARY

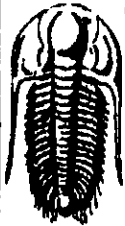
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2474.43	121.11	Initial Hydro-static
2	36.07	119.92	Open To Flow (1)
31	178.12	122.45	Shut-In(1)
91	1184.38	123.50	End Shut-In(1)
91	187.17	123.24	Open To Flow (2)
149	274.28	124.99	Shut-In(2)
275	1172.90	125.65	End Shut-In(2)
284	2336.96	125.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
570.00	100% water with trace of mud	4.69

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc.

Johnson Trust 12#1

3817 NW Expressway Oklahoma City Ok.  
73112+1483

12/25/33

Job Ticket: 39425

DST#: 2

ATTN: Mike K.

Test Start: 2011.04.23 @ 02:00:00

### 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<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 bbbl
570.00	100% water with trace of mud	4.689

Total Length: 570.00 ft      Total Volume: 4.689 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

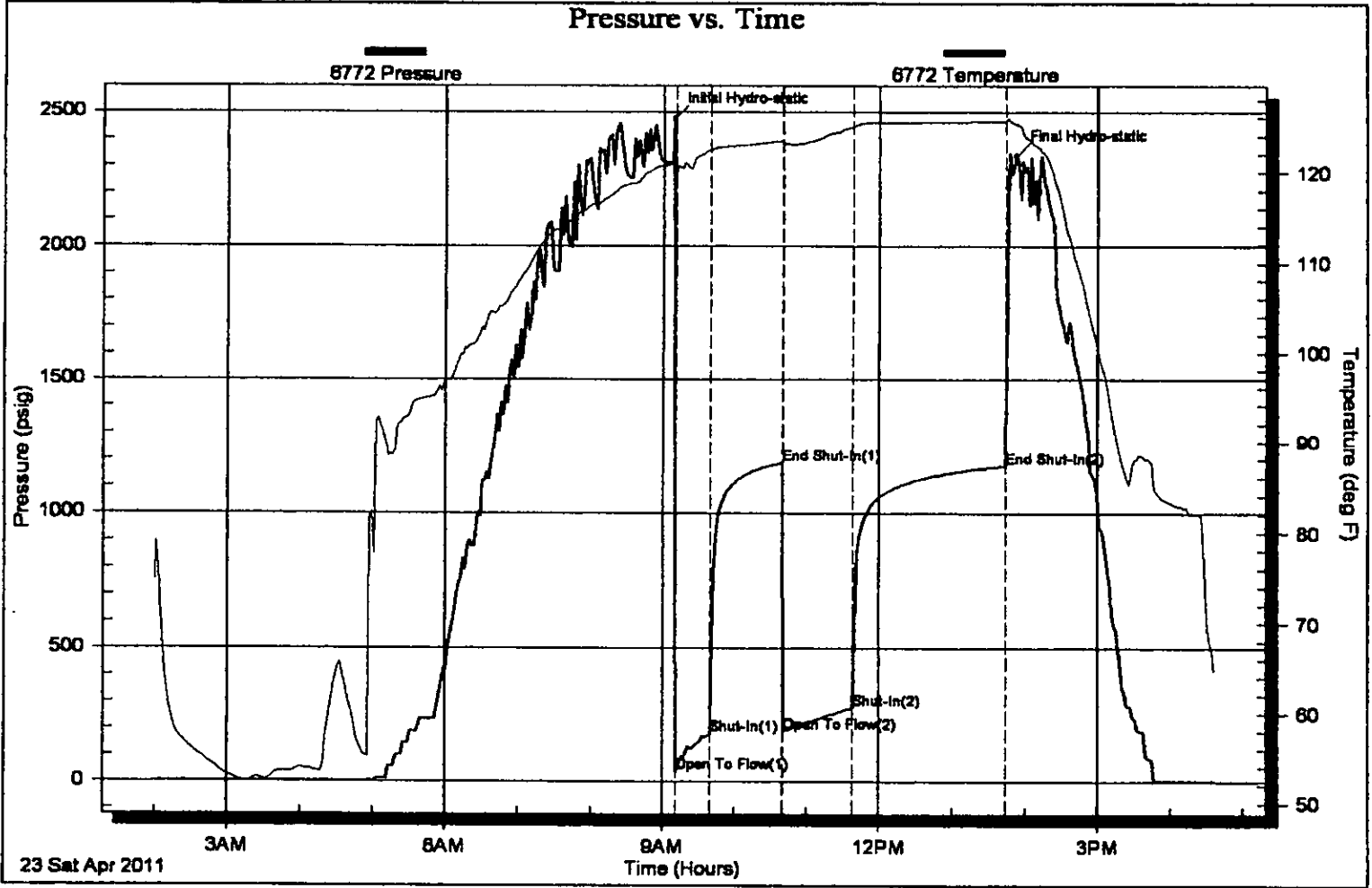
Serial #:

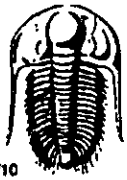
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- 2000 ML water. RW .6 @ 60=13000 @ 1150 PSI







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 039425

Well Name & No. Johnson Trust 12 #1 Test No. 2 Date 4-23-11  
 Company EOB Resources Inc Elevation 2889 KB 2877 GL  
 Address 3817 NW Expressway OK city OK 73112-1483  
 Co. Rep / Geo. Mike K. Rig Kenai 58  
 Location: Sec. 12 Twp. 25 Rge. 33 Co. Finney State KS

Interval Tested 4908 - 4953 Zone Tested Chester  
 Anchor Length 45 Drill Pipe Run 4525 Mud Wt. 9.2  
 Top Packer Depth 4903 Drill Collars Run 363 Vis 60  
 Bottom Packer Depth 4908 Wt. Pipe Run 0 WL R/A  
 Total Depth 4953 Chlorides NA 100 ppm System LCM 10"  
 Blow Description IF - weak building blow 29 min BOB  
ISF - No blow back  
FF - weak building blow 9" into bucket  
FSF - No blow back

Rec 570 Feet of 100 Water ~~0~~ %gas ~~0~~ %oil 100 %water Trace %mud

Mike Knox	680-641-2535	AFE
Well Name:		BCP
<u>Johnson Trust 12-1</u>	<u>505554</u>	ACP
35 -342	411	W/U
		LOE

%gas	%oil	%water	%mud
%gas	%oil	%water	%mud
%gas	%oil	%water	%mud
%gas	%oil	%water	%mud

Rec Total BHT 126 Gravity API RW 26 @ 60 F Chlorides 13000 ppm

(A) Initial Hydrostatic 2474  Test 1225<sup>00</sup> 106<sup>00</sup> T-On Location 12:00 AM  
 (B) First Initial Flow 36  Jars 250<sup>00</sup> T-Started 2:00 AM  
 (C) First Final Flow 178  Safety Joint 75<sup>00</sup> T-Open 6:30 AM  
 (D) Initial Shut-In 1184  Circ Sub \_\_\_\_\_ T-Pulled 11:00 AM  
 (E) Second Initial Flow 187  Hourly Standby 400<sup>00</sup> T-Out 2:00 PM  
 (F) Second Final Flow 274  Mileage 163<sup>00</sup> Comments RECEIVED  
 (G) Final Shut-In 1173  Sampler 250<sup>00</sup> MAR 26 2012  
 (H) Final Hydrostatic 2337  Straddle \_\_\_\_\_  Ruined Shale Packer RCC WICHITA  
 Shale Packer 500<sup>00</sup>  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra T.I.W. 250<sup>00</sup>  
 Extra Recorder \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Total 3263<sup>00</sup>  
 Accessibility 150<sup>00</sup> MP/DST Disc't \_\_\_\_\_  
 Sub Total \_\_\_\_\_

Approved By M.D. Knopf

Our Representative [Signature]

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 039425 Date 4-23-11

Company Name EOG

Lease Johnson Trust 17 #1 Test No. 2

County Finney Sec. 12 Twp. 25 Rng. 33

### SAMPLER RECOVERY

Gas 0 ML

Oil 0 ML

Mud Trace ML

Water 2000 ML ML

Other \_\_\_\_\_ ML

Pressure 1150 PSI ML

Total \_\_\_\_\_ ML

### PIT MUD ANALYSIS

Chlorides \_\_\_\_\_ ppm.

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F

Viscosity \_\_\_\_\_

Mud Weight Pill Mud

Filtrate \_\_\_\_\_

Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity 6 ohms @ 60 F

Chlorides 13000 ppm.

Gravity 0 corrected @ 60F

### PIPE RECOVERY

TOP Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F

Chlorides \_\_\_\_\_ ppm.

MIDDLE Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F

Chlorides \_\_\_\_\_ ppm.

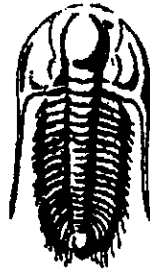
BOTTOM Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F

Chlorides \_\_\_\_\_ ppm.

RECEIVED

MAR 26 2012

KCC WICHITA



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **EOG Resources Inc.**

3817 NW Expressway Oklahoma City Ok.  
73112+1483

ATTN: Mike K.

**12/25/33**

**Johnson Trust 12#1**

Start Date: 2011.04.21 @ 09:15:00

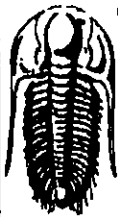
End Date: 2011.04.21 @ 20:39:30

Job Ticket #: 39424                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

**RECEIVED  
MAR 26 2012  
KCC WICHITA**

15.055.22099.00.00  
EOG Resources Inc.  
Johnson Trust 12#1  
12/25/33  
DST # 1  
N/A  
2011.04.21



**TRIOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

EOG Resources Inc.  
3817 NW Expressway Oklahoma City Ok.  
73112+1483  
ATTN: Mike K.

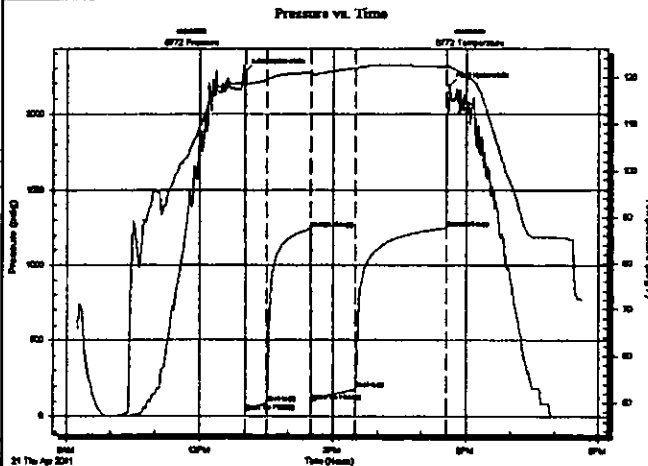
**Johnson Trust 12#1**  
**12/25/33**  
Job Ticket: 39424      DST#: 1  
Test Start: 2011.04.21 @ 09:15:00

### GENERAL INFORMATION:

Formation: N/A  
Deviated: No Whipstock      ft (KB)  
Time Tool Opened: 13:01:30  
Time Test Ended: 20:39:30  
Test Type: Conventional Bottom Hole  
Tester: Harley Davidson  
Unit No: 33  
Interval: 4555.00 ft (KB) To 4633.00 ft (KB) (TVD)  
Reference Elevations: 2889.00 ft (KB)  
Total Depth: 4633.00 ft (KB) (TVD)      2877.00 ft (CF)  
Hole Diameter: 7.78 inches Hole Condition: Fair      KB to GR/CF: 12.00 ft

Serial #: 6772      Inside  
Press@RunDepth: 181.21 psig @ 4557.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.04.21      End Date: 2011.04.21      Last Calib.: 2011.04.21  
Start Time: 09:15:00      End Time: 20:39:30      Time On Btrr: 2011.04.21 @ 13:00:45  
Time Off Btrr: 2011.04.21 @ 17:36:45

**TEST COMMENT:** F- Weak building blow 6" into bucket.  
IS- No blow back.  
FF- Weak building blow 4.5" into bucket.  
FSI- No blow back.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.97	119.00	Initial Hydro-static
1	30.09	118.51	Open To Flow (1)
30	88.37	119.40	Shut-In(1)
90	1240.66	120.92	End Shut-In(1)
91	98.97	120.61	Open To Flow (2)
150	181.21	121.88	Shut-In(2)
273	1246.89	122.34	End Shut-In(2)
276	2183.34	122.20	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2.00	100% oil	0.01
361.00	5% oil 5% gas 15% mud 75% water	1.78

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc.

Johnson Trust 12#1

3817 NW Expressway Oklahoma City Ok.  
73112+1483

12/25/33

Job Ticket: 39424

DST#: 1

ATTN: Mike K.

Test Start: 2011.04.21 @ 09:15:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1600.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	100% oil	0.010
361.00	5%oil5%gas 15%mud 75%w ater	1.775

Total Length: 363.00 ft Total Volume: 1.785 bbl

Num Fluid Samples: 0

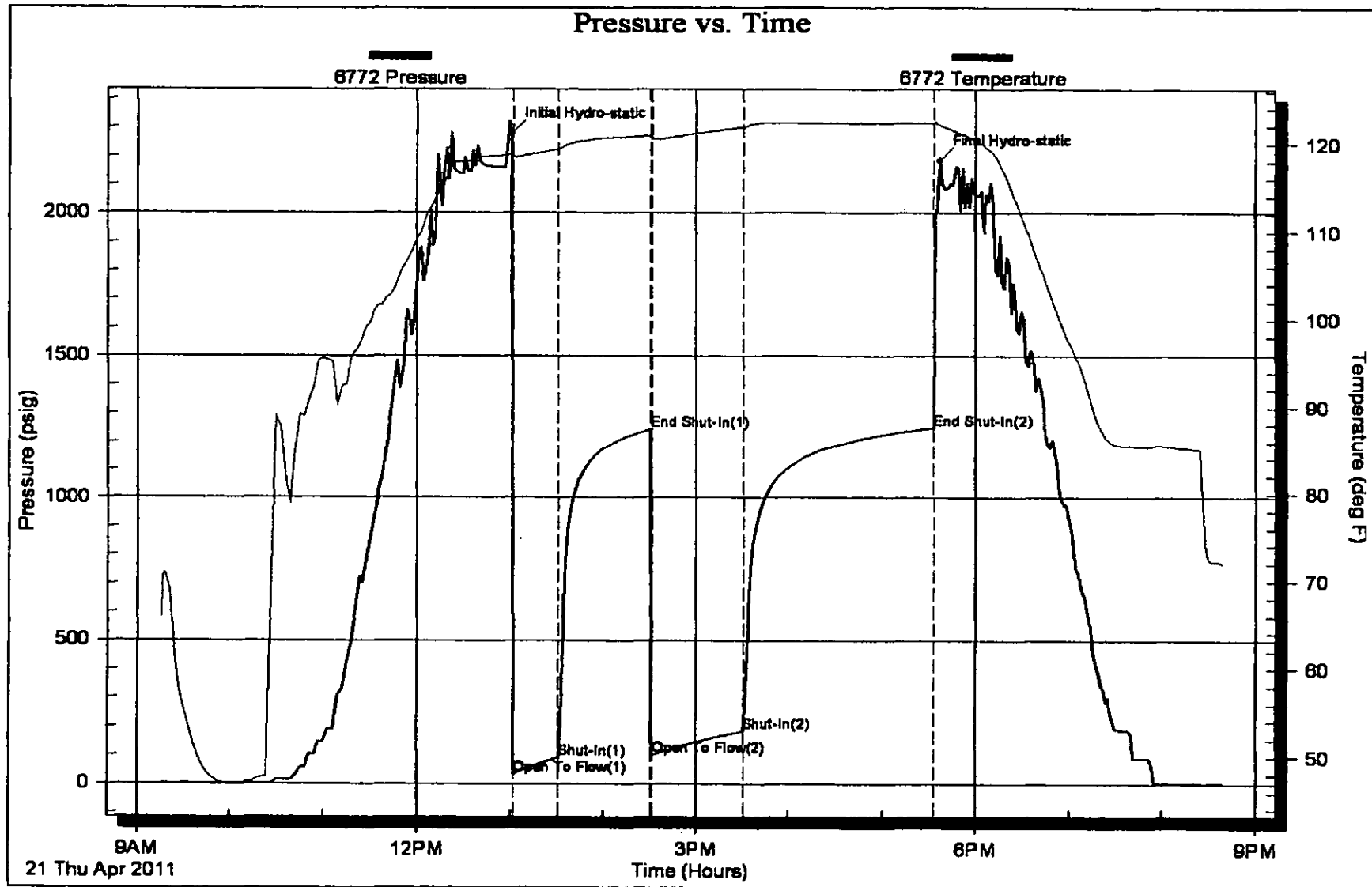
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- Trace of oil,gas,mud in 2000 ML w ater. RW .65@76=13000CHL.





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 039424

Well Name & No. Johnson Trust 12#1 Test No. 1 Date 4-21-11  
 Company EOG Resources Inc Elevation 2889 KB 2877 GL  
 Address 3817 NW Expressway Ok city Ok 73112-1483  
 Co. Rep / Geo. Mike K. Rig Kenai 58  
 Location: Sec. 12 Twp. 25 Rge. 33 Co. Finney State KS

Interval Tested 4555 - 4633 Zone Tested NA  
 Anchor Length 78 Drill Pipe Run 4167 Mud Wt. 9.1  
 Top Packer Depth 4550 Drill Collars Run 363 Vis 55  
 Bottom Packer Depth 4555 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4633 Chlorides 1600 ppm System LCM ⊗  
 Blow Description ZF - Weak building blow 6" into bucket  
ZSI - No blow back  
FF - Weak building blow 4 1/2" into bucket  
FZI - No blow back

Rec. <u>2</u> Feet of	%gas <u>100</u>	%oil	%water	%mud
Rec. <u>361</u> Feet of	<u>5</u> %gas	<u>5</u> %oil	<u>75</u> %water	<u>15</u> %mud

Rec. <u>Mike Knox</u> 580-641-2535	<input checked="" type="checkbox"/> AFE	%gas	%oil	%water	%mud
Well Name: <u>Johnson Trust 12-1 505554</u>	<input type="checkbox"/> BCP	%gas	%oil	%water	%mud
Rec. <u>35</u> .342	<input type="checkbox"/> ACP	%gas	%oil	%water	%mud
Rec. <u>411</u> <u>mk</u>	<input type="checkbox"/> WJ	%gas	%oil	%water	%mud
	<input type="checkbox"/> LOE	%gas	%oil	%water	%mud

Rec. 35 Gravity API RW .65 @ 76 °F Chlorides 13000 ppm

(A) Initial Hydrostatic 2276  Test 1725<sup>00</sup> 10 hrs T-On Location 545 AM  
 (B) First Initial Flow 30  Jars 250<sup>00</sup> T-Started 915 AM  
 (C) First Final Flow 88  Safety Joint 75<sup>00</sup> T-Open 1215 PM  
 (D) Initial Shut-In 1241  Circ Sub \_\_\_\_\_ T-Pulled 445 PM  
 (E) Second Initial Flow 99  Hourly Standby 425<sup>00</sup> T-Out 800 PM  
 (F) Second Final Flow 181  Mileage 16.3<sup>00</sup> Comments RECEIVED  
 (G) Final Shut-In 1247  Sampler 250<sup>00</sup> MAR 26 2012  
 (H) Final Hydrostatic 2183  Straddle \_\_\_\_\_ KCC WICHITA  
 Shale Packer x2 500<sup>00</sup>  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra T.I.W. 250<sup>00</sup> \_\_\_\_\_  
 Initial Open 30  Day Standby \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Initial Shut-In 60  Accessibility 150<sup>00</sup> Total 3288<sup>00</sup>  
 Final Flow 60 Sub Total \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 120

Approved By M. D. Kemp Our Representative Shirley D. A.  
 TriLOBite Testing Inc. shall not be liable for damaged or destroyed property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 039424 Date 4-21-11  
 Company Name EOG  
 Lease Johnson Trust 12 #1 Test No. 1  
 County Finney Sec. 12 Twp. 25 Rng. 33

### SAMPLER RECOVERY

Gas Trace ML  
 Oil Trace ML  
 Mud Trace ML  
 Water 2000 ML ML  
 Other \_\_\_\_\_ ML  
 Pressure 1200 PSI ML  
 Total \_\_\_\_\_ ML

### PIT MUD ANALYSIS

Chlorides \_\_\_\_\_ ppm.  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Viscosity \_\_\_\_\_  
 Mud Weight \_\_\_\_\_  
 Filtrate \_\_\_\_\_  
 Other Pill \_\_\_\_\_  
on bottom

### SAMPLER ANALYSIS

Resistivity .65 ohms @ 76 F  
 Chlorides 13000 ppm.  
 Gravity 0 corrected @60F

RECEIVED  
 PIPE RECOVERY MAR 26 2012

KCC WICHITA

TOP  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.

MIDDLE  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.

BOTTOM  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.