

**CONFIDENTIAL**

**WELL COMPLETION FORM**

**ORIGINAL**

Form must be Typed

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

12/10/12

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. \_\_\_\_\_

<u>8/12/2010</u>	<u>8/19/2010</u>	<u>10/22/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API NO. 15- 189-22751-00-00

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

SE - SE - NW Sec. 20 Twp. 31 S. R. 35  East  West

2310 Feet from  North /  South Line of Section

2310 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE     NW     SE     SW

County STEVENS

Lease Name CULLISON Well # 20 #2

Field Name \_\_\_\_\_

Producing Formation N/A

Elevation: Ground 3009' Kelley Bushing 3021'

Total Depth 6200' Plug Back Total Depth N/A

Amount of Surface Pipe Set and Cemented at 1707 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 AFINS 10-22-10  
(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: **RECEIVED**

Operator Name \_\_\_\_\_ **DEC 13 2010**

Lease Name \_\_\_\_\_ License # KCC WICHITA

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 Rockel

Title SR. OPERATIONS ASSISTANT Date 12/9/2010

Subscribed and sworn to before me this 10th day of December

Notary Public Diana L. Thompson

Date Commission Expires 10-31-2012



**KCC Office Use ONLY**

Letter of Confidentiality Attached 12/10/12 - 12/10/12  
If Denied, Yes  Date: \_\_\_\_\_

- Wireline Log Received
- Geologist Report Received
- UIC Distribution

Operator Name EOG RESOURCES, INC.

Lease Name CULLISON

Well # 20 #2

Sec. 20 Twp. 31 S.R. 35  East  West

County STEVENS

**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, RESOLUTION, SD/DS NEUTRON, MICRO,  
SD/DS NEUTRON MICRO & COLLAR LOCATOR.

Log Formation (Top), Depth and Datums  Sample

Name Top Datum

SEE ATTACHED

**CASING RECORD**  New  Used

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

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12 1/4	8 5/8	24#	1707'	MIDCON2	300	SEE ATTACHED
					CLASS 'A'	200	
PRODUCTION	7 7/8	5 1/2	15.5#	6192'	50/50 POZ	135	SEE ATTACHED

**ADDITIONAL CEMENTING/SQUEEZE RECORD**

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Add, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	5999' -6017'	ACIDIZE w/2000 GAL HCL.	5999-6017
		FRAC w/100M# PROPPANT.	5999-6017

<b>TUBING RECORD</b>	Size <u>2 7/8</u>	Set At <u>5995'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
----------------------	-------------------	---------------------	-----------	---

Date of First, Resumed Production, SWD or Enhr. <u>DRY - PENDING P&amp;A</u>	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	<b>METHOD OF COMPLETION</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	<b>Production Interval</b> _____ _____
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ACO-1 Completion Report

Well Name : CULLISON 20 #2

FORMATION	TOP	DATUM
BASE OF HEEBNER	4125	-1104
LANSING	4256	-1235
KANSAS CITY	4517	-1496
MARMATON	4902	-1881
CHEROKEE	5078	-2057
ATOKA	5407	-2386
MORROW	5500	-2479
CHESTER	5896	-2875
ST GENEVIEVE	5968	-2947
ST LOUIS	6040	-3019

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**HALLIBURTON**

**Cementing Job Summary**

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2799786	Quote #:	Sales Order #: 7563730
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Knox, Mike	
Well Name: Cullison	Well #: 20 #2	API/UWI #:	
Field:	City (SAP): MOSCOW	County/Parish: Stevens	State: Kansas
Legal Description: Section 20 Township 31S Range 35W			
Contractor: Kenai		Rig/Platform Name/Num: 55	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DRAKE, BRANDON		Srv Supervisor: HULSEY, JASON	MBU ID Emp #: 305277

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEETZ, DONALD E	4	389855	FARNUM, GORDON Lamar	4	477892	HULSEY, JASON	4	305277

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025025	25 mile	10744298C	25 mile	10866807	25 mile	10988832	25 mile
10998524	25 mile	11019295	25 mile	11133699	25 mile		

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
08/13/2010	4	2						

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
					13 - Aug - 2010	00:00	CST
Form Type			BHST	On Location	13 - Aug - 2010	04:00	CST
Job depth MD	1711. ft		Job Depth TVD	Job Started	13 - Aug - 2010	05:15	CST
Water Depth			Wk Ht Above Floor	Job Completed	13 - Aug - 2010	00:00	CST
Perforation Depth (MD)	From		To	Departed Loc	13 - Aug - 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					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	12	EA		
CLP,LIM,8 5/8,FRICT,WTH DOGS	2	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	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	8.625	1	HWE
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	8.625	1	HES
Stage Tool										Centralizers	8.625	12	HES

**Miscellaneous Materials**

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

**Fluid Data**

Summit Version: 7.20.130

Friday, August 13, 2010 07:24:00

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**Cementing Job Summary**

**HALLIBURTON**

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)		sacks	11.4	2.96	18.14		18.14	
	3 %	CALCIUM CHLORIDE - HI TEST PELLETT (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)		sacks	15.6	1.2	5.22		5.22	
	2 %	CALCIUM CHLORIDE - HI TEST PELLETT (100005053)								
	0.25 lbm	POLY-E-FLAKE (101216940)								
	5.218 Gal	FRESH WATER								
3	Displacement			bbl	8.33	.0	.0	.0		
Calculated Values			Pressures			Volumes				
Displacement	105.96	Shut In: Instant		Lost Returns	NO	Cement Slurry	200.89	Pad		
Top Of Cement	Surface	5 Min		Cement Returns	35	Actual Displacement	105.96	Treatment		
Frac Gradient		15 Min		Spacers	0	Load and Breakdown		Total Job	306.85	
Notes										
Circulating		Mixing	5	Displacement	8	Avg. Job	6			
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 <i>M. D. Krup</i>						

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## Cementing Job Log

*The Road to Excellence Starts with Safety*

Sold To #: 348223	Ship To #: 2799786	Quote #:	Sales Order #: 7563730
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Knox, Mike	
Well Name: Cullison	Well #: 20 #2	API/UWI #:	
Field:	City (SAP): MOSCOW	County/Parish: Stevens	State: Kansas
Legal Description: Section 20 Township 31S Range 35W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Kenai	Rig/Platform Name/Num: 55		
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DRAKE, BRANDON		Srv Supervisor: HULSEY, JASON	MBU ID Emp #: 305277

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/13/2010 00:00							
Depart Yard Safety Meeting	08/13/2010 00:30							discuse routs and stops
Arrive At Loc	08/13/2010 04:00							
Assessment Of Location Safety Meeting	08/13/2010 04:05							walk around location pouint out any hazards
Pre-Rig Up Safety Meeting	08/13/2010 04:10							watch for pinch points,hammering and walking hazards
Rig-Up Completed	08/13/2010 05:00							
Pre-Job Safety Meeting	08/13/2010 05:15							with all personal on location
Start Job	08/13/2010 05:15							
Pressure Test	08/13/2010 05:34							2000 psi
Pump Lead Cement	08/13/2010 05:45		6	158.1 5	158.1 5			300 sks Varicem @ 11.4ppg
Pump Tail Cement	08/13/2010 06:08		4	42.74	200.8 9			200 sks Swiftcem @ 15.6ppg
Drop Plug	08/13/2010 06:15							top plug only
Pump Displacement	08/13/2010 06:17		8	85	285.8 9			fresh water
Start Staging - 5 Minutes	08/13/2010 06:34							
Pump Displacement	08/13/2010 06:37		2	5	290.8 9			
Start Staging - 5 Minutes	08/13/2010 06:40							RECEIVED
Pump Displacement	08/13/2010 06:45		2	5	295.8 9			DEC 13 2010

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Sold To #: 348223

Ship To #: 2799786

Quote #:

Sales Order #:

7563730

SUMMIT Version: 7.20.130

Friday, August 13, 2010 07:24:00

**HALLIBURTON**

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***Cementing Job Log***

Activity Description	Date/Time	Cnt #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Staging - 5 Minutes	08/13/2010 06:47							
Pump Displacement	08/13/2010 06:52		2	5	300.8 9			
Start Staging - 5 Minutes	08/13/2010 06:55							
Pump Displacement	08/13/2010 07:00		2	6	306.8 9			
Bump Plug	08/13/2010 07:03							bumped @ 375 took to 1000
Check Floats	08/13/2010 07:05							Floats good
Pre-Rig Down Safety Meeting	08/13/2010 07:10							All HES personnel present
Rig-Down Equipment	08/13/2010 07:15							
Depart Location for Service Center or Other Site	08/13/2010 08:30							

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Sold To #: 348223

Ship To #: 2799786

Quote #:

Sales Order #: 7563730

SUMMIT Version: 7.20.130

Friday, August 13, 2010 07:24:00

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**DEC 10 2010**  
**CONFIDENTIAL Cementing Job Summary**

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*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 348223		<b>Ship To #:</b> 2799786		<b>Quote #:</b>		<b>Sales Order #:</b> 7575641							
<b>Customer:</b> EOG RESOURCES INC EBUSINESS				<b>Customer Rep:</b> Knox, Mike									
<b>Well Name:</b> Cullison			<b>Well #:</b> 20 #2		<b>API/UWI #:</b>								
<b>Field:</b>		<b>City (SAP):</b> MOSCOW		<b>County/Parish:</b> Stevens		<b>State:</b> Kansas							
<b>Legal Description:</b> Section 20 Township 31S Range 35W													
<b>Contractor:</b> Kenai			<b>Rig/Platform Name/Num:</b> 55										
<b>Job Purpose:</b> Cement Production Casing													
<b>Well Type:</b> Development Well				<b>Job Type:</b> Cement Production Casing									
<b>Sales Person:</b> DRAKE, BRANDON			<b>Srvc Supervisor:</b> HULSEY, JASON		<b>MBU ID Emp #:</b> 305277								
<b>Job Personnel</b>													
<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>	<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>	<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>					
CARRILLO, EDUARDO Carrillo	8	371263	GREEN, SCOTT Anthony	8	301261	HULSEY, JASON	8	305277					
PORTILLO, CESAR S	8	457847											
<b>Equipment</b>													
<b>HES Unit #</b>	<b>Distance-1 way</b>	<b>HES Unit #</b>	<b>Distance-1 way</b>	<b>HES Unit #</b>	<b>Distance-1 way</b>	<b>HES Unit #</b>	<b>Distance-1 way</b>						
10240245	25 mile	10741245	25 mile	10744298C	25 mile	10988832	25 mile						
11133689	25 mile												
<b>Job Hours</b>													
<b>Date</b>	<b>On Location Hours</b>	<b>Operating Hours</b>	<b>Date</b>	<b>On Location Hours</b>	<b>Operating Hours</b>	<b>Date</b>	<b>On Location Hours</b>	<b>Operating Hours</b>					
08/19/2010	8	2											
<b>TOTAL</b>				<i>Total is the sum of each column separately</i>									
<b>Job</b>				<b>Job Times</b>									
<b>Formation Name</b>				<b>Date</b>		<b>Time</b>		<b>Time Zone</b>					
<b>Formation Depth (MD) Top</b>		<b>Bottom</b>		<b>Called Out</b>		18 - Aug - 2010		22:00					
				<b>On Location</b>		19 - Aug - 2010		01:00					
<b>Form Type</b>		BHST		<b>Job Started</b>		19 - Aug - 2010		06:43					
<b>Job depth MD</b>		6197. ft		<b>Job Depth TVD</b>		6200. ft		<b>Job Completed</b>					
<b>Water Depth</b>				<b>Wk Ht Above Floor</b>		3. ft		19 - Aug - 2010					
<b>Perforation Depth (MD) From</b>		<b>To</b>		<b>Departed Loc</b>		19 - Aug - 2010		10:00					
								CST					
<b>Well Data</b>													
<b>Description</b>	<b>New / Used</b>	<b>Max pressure Paig</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>		
Production Hole				7.876				1700.	6200.				
5 1/2" Production Casing	Unknown		5.5	4.95	15.5	8 RD (LT&C)	P-110		6200.				
Surface Casing	Unknown		8.625	8.097	24.				1700.				
<b>Sales/Rental/3<sup>rd</sup> Party (HES)</b>													
<b>Description</b>						<b>Qty</b>	<b>Qty uom</b>	<b>Depth</b>	<b>Supplier</b>				
CENTRALIZER ASSY - TURBO - API -						20	EA						
CLAMP - LIMIT - 5-1/2 - HINGED -						4	EA						
PLUG,CMTG,TOP,5 1/2,HWE,4.38 MIN/5.09 MA						1	EA						
<b>Tools and Accessories</b>													
<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>
Guide Shoe					Packer					Top Plug	5.5	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					ODR plug set			
Insert Float										Plug Container	5.5	1	HES
Stage Tool										Centralizers	5.5	20	HES
<b>Miscellaneous Materials</b>													

Summit Version: 7.20.130

Thursday, August 19, 2010 09:00:00

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**Cementing Job Summary**

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%		
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	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	Primary Cement	ECONOCEM (TM) SYSTEM (452992)		sacks	13.5	1.76	8.52		8.52
	6 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	10 %	SALT, BULK (100003695)							
	2 lbm	PRESSUR-SEAL LCM, 40 LB (101204356)							
	0.6 %	HALAD(R)-344, 50 LB (100003670)							
	0.5 %	D-AIR 3000 (101007446)							
	0.1 %	WG-17, 50 LB SK (100003623)							
	8.516 Gal	FRESH WATER							
2	2% KCL Displacement			bbl	8.45	.0	.0	.0	
	7.15 lbm/bbl	POTASSIUM CHLORIDE - KCL, 50 LB BAG (100001585)							
3	Rat Hole Plug Cement	PLUGCEM (TM) SYSTEM (452969)		sacks	13.5	1.76	8.52		8.52
	6 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	10 %	SALT, BULK (100003695)							
	2 lbm	PRESSUR-SEAL LCM, 40 LB (101204356)							
	0.6 %	HALAD(R)-344, 50 LB (100003670)							
	0.5 %	D-AIR 3000 (101007446)							
	0.1 %	WG-17, 50 LB SK (100003623)							
	8.516 Gal	FRESH WATER							
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	146.44	Shut In: Instant		Lost Returns		Cement Slurry	42	Pad	
Top Of Cement	5500	5 Min		Cement Returns		Actual Displacement	146.44	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	188.44
<b>Rates</b>									
Circulating	5	Mixing	6	Displacement	10	Avg. Job	10		
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		
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature					

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**Cementing Job Log**

*The Road to Excellence Starts with Safety*

Sold To #: 348223	Ship To #: 2799786	Quote #:	Sales Order #: 7575641
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Knox, Mike	
Well Name: Cullison	Well #: 20 #2	API/UWI #:	
Field:	City (SAP): MOSCOW	County/Parish: Stevens	State: Kansas
Legal Description: Section 20 Township 31S Range 35W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Kenai	Rig/Platform Name/Num: 55		
Job Purpose: Cement Production Casing		Ticket Amount:	
Well Type: Development Well	Job Type: Cement Production Casing		
Sales Person: DRAKE, BRANDON	Srvc Supervisor: HULSEY, JASON	MBU ID Emp #: 305277	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/18/2010 22:00							
Depart Yard Safety Meeting	08/19/2010 00:00							discuse routs and stops
Arrive At Loc	08/19/2010 01:00							rig was running casing
Assessment Of Location Safety Meeting	08/19/2010 01:05							walk around location point out any hazards
Pre-Rig Up Safety Meeting	08/19/2010 01:10							watch for pinch points,hammering and walking hazards
Rig-Up Completed	08/19/2010 02:00							
Casing on Bottom	08/19/2010 06:00							
Start Job	08/19/2010 06:43							
Pre-Job Safety Meeting	08/19/2010 07:40							with all personal on location
Pressure Test	08/19/2010 07:53							3000psi
Pump Lead Cement	08/19/2010 07:57							135sks@13.5ppg
Clean Lines	08/19/2010 08:03							to pit
Drop Plug	08/19/2010 08:05							top plug only
Pump Displacement	08/19/2010 08:06							kcl water
Bump Plug	08/19/2010 08:26							
Check Floats	08/19/2010 08:27							ok
Pump Cement	08/19/2010 08:34							cement rat and mouse hole

RECEIVED  
 DEC 13 2010  
 KCC WICHITA

Sold To #: 348223

Ship To #: 2799786

Quote #:

Sales Order #:

7575641

SUMMIT Version: 7.20.130

Thursday, August 19, 2010 09:00:00

# HALLIBURTON

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	08/19/2010 08:47							all hse employees present
Pre-Rig Down Safety Meeting	08/19/2010 08:50							
Rig-Down Equipment	08/19/2010 09:00							all hse employees present
Rig-Down Completed	08/19/2010 09:45							
Depart Location for Service Center or Other Site	08/19/2010 10:00							

**KCC**  
**DEC 10 2010**  
**CONFIDENTIAL**

**RECEIVED**  
**DEC 13 2010**  
**KCC WICHITA**

Sold To #: 348223

Ship To #: 2799786

Quote #:

Sales Order #: 7575641

SUMMIT Version: 7.20.130

Thursday, August 19, 2010 09:00:00



# Weatherford® Completion Systems

## DRILL STEM TEST REPORT

Prepared For: **EOG Resources INC**

3817 NW Expressway STE 500 OKC, OK  
73112

ATTN: Mike Knox

**20/31/35**

**Cullison 20-2**

Start Date: 2010.08.17 @ 00:00:00

End Date:

Job Ticket #: 37427

DST #: 1

**KCC  
DEC 10 2010  
CONFIDENTIAL**

**RECEIVED**

**DEC 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<sup>®</sup> Completion Systems

## DRILL STEM TEST REPORT

EOG Resources INC

Cullison 20-2

3817 NW Expressway STE 500 OKC, OK 73112

20/31/35

ATTN: Mike Knox

Job Ticket: 37427

DST#: 1

Test Start: 2010.08.17 @ 00:00:00

### GENERAL INFORMATION:

Formation: **Chester**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened:

Time Test Ended:

Test Type: **Conventional Bottom Hole**

Tester: **Chris Hagman**

Unit No: **34**

Interval: **5985.00 ft (KB) To 6200.00 ft (KB) (TVD)**

Reference Elevations: **3020.00 ft (KB)**

Total Depth: **6200.00 ft (KB) (TVD)**

**3009.00 ft (CF)**

Hole Diameter: **7.78 inches -hole Condition: Good**

**KB to GR/CF: 11.00 ft**

**Serial #: 6753 Inside**

Press@RunDepth: **psig @ 5987.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.08.17**

End Date:

**2010.08.17**

Last Calib.: **2010.08.17**

Start Time: **11:23:52**

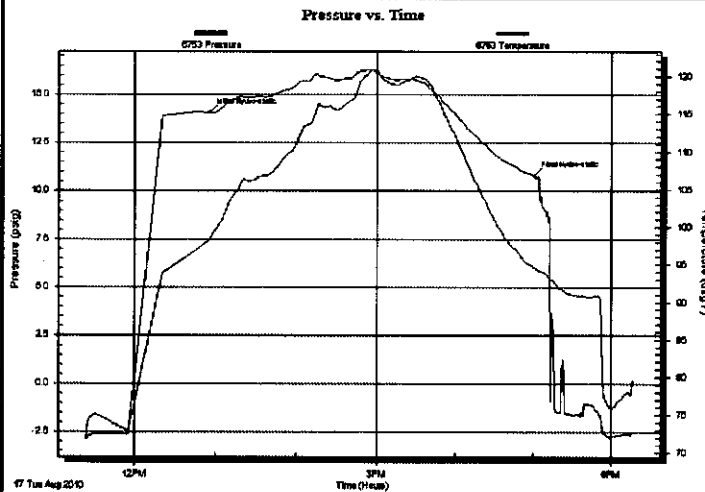
End Time:

**18:16:31**

Time On Btm: **2010.08.17 @ 12:55:51**

Time Off Btm: **2010.08.17 @ 17:00:41**

TEST COMMENT: **F: Lost circulation before opening the tool**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	14.07	98.35	Initial Hydro-static
245	10.80	94.60	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)

### Gas Rates

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



# Weatherford<sup>®</sup>

## Completion Systems

### DRILL STEM TEST REPORT

EOG Resources INC

Cullison 20-2

3817 NW Expressway STE 500 OKC, OK 73112

20/31/35

ATTN: Mike Knox

Job Ticket: 37427

DST#: 1

Test Start: 2010.08.17 @ 00:00:00

#### GENERAL INFORMATION:

Formation: **Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Interval: **5985.00 ft (KB) To 6200.00 ft (KB) (TVD)**

Reference Elevations: 3020.00 ft (KB)

Total Depth: 6200.00 ft (KB) (TVD)

3009.00 ft (CF)

Hole Diameter: 7.78 inches -ole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: **8374** Inside

Press@RunDepth: psig @ 5987.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.17

End Date:

2010.08.17

Last Calib.:

2010.08.17

Start Time: 11:27:04

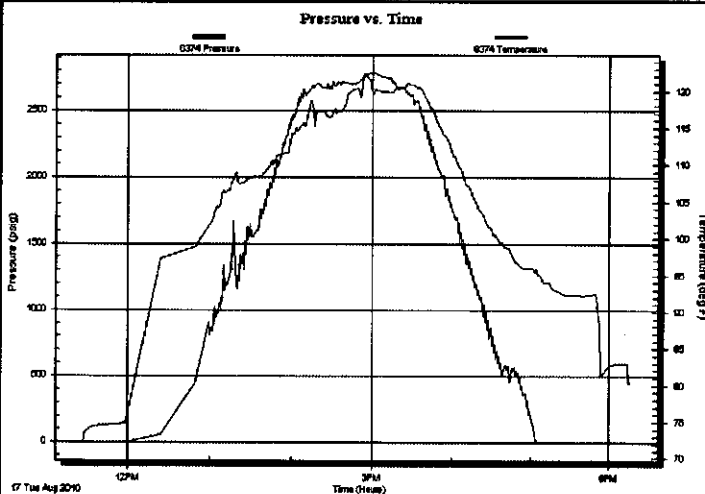
End Time:

18:16:23

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Lost circulation before opening the tool



#### PRESSURE SUMMARY

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

#### Recovery

Length (ft)	Description	Volume (bbl)

#### Gas Rates

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



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**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

EOG Resources INC

**Cullison 20-2**

3817 NW Expressway STE 500 OKC, OK 73112

**20/31/35**

ATTN: Mike Knox

Job Ticket: 37427

**DST#: 1**

Test Start: 2010.08.17 @ 00:00:00

**Tool Information**

Drill Pipe:	Length: 5592.00 ft	Diameter: 3.80 inches	Volume: 78.44 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 0.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 81000.00 lb
			<u>Total Volume: 80.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	5985.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	215.00 ft			
Tool Length:	246.00 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			5955.00	
Shut In Tool	5.00			5960.00	
Sampler	3.00			5963.00	
Hydraulic tool	5.00			5968.00	
Jars	5.00			5973.00	
Safety Joint	3.00			5976.00	
Packer	5.00			5981.00	31.00 Bottom Of Top Packer
Packer	4.00			5985.00	
Stubb	1.00			5986.00	
Perforations	1.00			5987.00	
Recorder	0.00	8374	Inside	5987.00	
Recorder	0.00	6753	Inside	5987.00	
Perforations	18.00			6005.00	
Change Over Sub	1.00			6006.00	
Drill Pipe	190.00			6196.00	
Change Over Sub	1.00			6197.00	
Bullnose	3.00			6200.00	215.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>246.00</b>				



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

EOG Resources INC  
 3817 NW Expressway STE 500 OKC, OK 73112  
 ATTN: Mike Knox

**Cullison 20-2**  
**20/31/35**  
 Job Ticket: 37427      **DST#: 1**  
 Test Start: 2010.08.17 @ 00:00:00

**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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.59 cm <sup>2</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl

Total Length:                      ft      Total Volume:                      bbl  
 Num Fluid Samples: 0                      Num Gas Bombs: 0                      Serial #:  
 Laboratory Name:                      Laboratory Location:  
 Recovery Comments:





# DRILL STEM TEST REPORT

**GAS RATES**

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

EOG Resources INC

**Cullison 20-2**

3817 NW Expressway STE 500 OKC, OK 73112

**20/31/35**

ATTN: Mike Knox

Job Ticket: 37427

**DST#: 1**

Test Start: 2010.08.17 @ 00:00:00

## 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

