

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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AUG 27 2010

Form ACO-1
October 2008

Form must be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC WICHITA

8/27/12

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: DCP MIDSTREAM, LP

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. _____

6/11/10 6/19/10 6/30/10

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API NO. 15- 129-21918-00-00

Spot Description: _____

SE - NW - NE - SW Sec. 18 Twp. 33 S. R. 39 East West

2085 Feet from North / South Line of Section

1895 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County MORTON

Lease Name HAYWARD FARMS Well # 18 #1

Field Name WILDCAT

Producing Formation MORROW

Elevation: Ground 3261' Kelley Bushing 3273'

Total Depth 6500' Plug Back Total Depth N/A

Amount of Surface Pipe Set and Cemented at 1703 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

(Data must be collected from the Reserve Pit)

Chloride content 4000 ppm Fluid volume 1000 bbls

Dewatering method used EVAPORATION

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County _____ Docket No. _____

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

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

Signature Dawn Rockel

Title SR. OPERATIONS ASSISTANT Date 8/25/10

Subscribed and sworn to before me this 26th day of August

20 10 Notary Public Deanna Gleheart State of Oklahoma

Date Commission Expires 7/6/13

Commission # 09005487 Expires 07/06/13

KCC Office Use ONLY

Letter of Confidentiality Attached 8/27/10
If Denied, Yes Date: 8/27/12
Wireline Log Received
Geologist Report Received
UIC Distribution

Operator Name EOG RESOURCES, INC.

Lease Name HAYWARD FARMS

Well # 18 #1

Sec. 18 Twp. 33 S.R. 39 East West

County MORTON

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, MICRO, ANNULAR HOLE VOLUME, SD/DS
NEUTRON MICRO, CEMENT BOND, SONIC ARRAY & SD/DS
NEUTRON.

Log Formation (Top), Depth and Datums Sample

Name Top Datum

SEE ATTACHED SHEET

CASING RECORD New Used

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

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12 1/4	8 5/8	24#	1703	MIDCON2	300	SEE ATTACHED
					CLASS 'A'	200	
PRODUCTION	7 7/8	4 1/2	10.5#	6488	50/50 POZ	280	SEE ATTACHED

ADDITIONAL CEMENTING/SQUEEZE RECORD

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	5750-5760	NONE	

TUBING RECORD	Size 2 3/8	Set At 5738'	Packer At N/A	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---------------	---------------	-----------------	------------------	---

Date of First, Resumed Production, SWD or Enhr. 7/1/10	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. -0-	Gas Mcf 978	Water Bbls. 8	Gas-Oil Ratio ---	Gravity ---
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	Production Interval 5750-5760
---	--	----------------------------------

ACO-1 Completion Report		
Well Name : HAYWARD FARMS 18 #1		
FORMATION	TOP	DATUM
WABAUNSEE	3184	89
BASE OF HEEBNER	3979	-706
LANSING	4072	-799
MARMATON	4758	-1485
CHEROKEE	5034	-1761
ATOKA	5426	-2153
MORROW	5550	-2277
CHESTER	6060	-2787
ST GENEVIEVE	6145	-2872
ST LOUIS	6350	-3077

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HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2788857	Quote #:	Sales Order #: 7428719
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Rogers, Sheila	
Well Name: Hayward Farms	Well #: 18#1	API/UWI #:	
Field:	City (SAP): ROLLA	County/Parish: Morton	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		Srvc Supervisor: SMITH, BOBBY	MBU ID Emp #: 106036

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNETT, JAMES Ray		226567	SLATER, JOE P		106095	SMITH, BOBBY Wayne		106036
TORRES, CLEMENTE		344233						

Equipment

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

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top Bottom	Called Out	6-11	
Form Type BHST	On Location	6-11	
Job depth MD 1700. ft Job Depth TVD	Job Started	6-12	
Water Depth Wk Ht Above Floor	Job Completed	6-12	
Perforation Depth (MD) From To	Departed Loc	6-12	

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					1700.		
Surface Casing	Unknown		8.625	8.097	24.				1700.		

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			
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 Fid	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

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Cementing Job Summary

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		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	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. Kemp</i>					

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Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2788857	Quote #:	Sales Order #: 7428719
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Rogers, Sheila	
Well Name: Hayward Farms	Well #: 18#1	API/UWI #:	
Field:	City (SAP): ROLLA	County/Parish: Morton	State: Kansas
Legal Description:			
Lat:		Long:	
Contractor: ABERCROMBIE		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: SMITH, BOBBY	
		MBU ID Emp #: 106036	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/11/2010 22:00							
Depart Location Safety Meeting	06/11/2010 23:00							
Arrive At Loc	06/12/2010 00:00							
Assessment Of Location Safety Meeting	06/12/2010 00:00							Rig pulling drill pipe
Pre-Rig Up Safety Meeting	06/12/2010 00:10							
Other	06/12/2010 00:30							drill pipe out of the hole casing crew rigging up.
Rig-Up Completed	06/12/2010 01:00							
Other	06/12/2010 01:15							casing going in the hole
Other	06/12/2010 03:00							casing on bottom rig is circulating.
Safety Meeting - Pre Job	06/12/2010 03:20							
Start Job	06/12/2010 03:33							
Test Lines	06/12/2010 03:34						3000.0	
Pump Lead Cement	06/12/2010 03:38		7	158.15			225.0	300 sx = 888 ft3 = top of cement surface
Other	06/12/2010 03:39							mud returns
Pump Tail Cement	06/12/2010 03:59		7	42.74			300.0	200 sx = 240 ft3. top of cement 1001.74 ft
Drop Top Plug	06/12/2010 04:06							
Pump Displacement	06/12/2010 04:07		10	0			150.0	water
Stage Cement	06/12/2010 04:17		2	85			600.0	

Sold To #: 348223

Ship To #: 2788857

Quote #:

Sales Order #:

7428719

SUMMIT Version: 7.20.130

Saturday, June 12, 2010 05:17:00

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Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Bump Plug	06/12/2010 04:46		2	105.6 3		500.0	1300. 0	
Check Floats	06/12/2010 04:48							float held.
End Job	06/12/2010 04:49							50 bbls of cement back to surface.
Safety Meeting - Pre Rig-Down	06/12/2010 05:00							
Rig-Down Completed	06/12/2010 08:00							
Safety Meeting - Departing Location	06/12/2010 08:15							
Depart Location for Service Center or Other Site	06/12/2010 08:30							Thank you for calling Halliburton. Bob and crew.

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Sold To #: 348223

Ship To #: 2788857

Quote #:

Sales Order #:

7428719

SUMMIT Version: 7.20.130

Saturday, June 12, 2010 05:17:00

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2788857	Quote #:	Sales Order #: 7447587
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Knox, M.D.	
Well Name: Hayward Farms		Well #: 18#1	API/UWI #:
Field:	City (SAP): ROLLA	County/Parish: Morton	State: Kansas
Contractor: Kenai		Rig/Platform Name/Num: 55	
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: BLAKEY, JOSEPH		Srv 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	10	371263	DEETZ, DONALD E	10	389855	GREEN, SCOTT Anthony	3.0	301261
SLATER, JOE P	10	106095						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10243558	50 mile	10286731	50 mile	10714253C	50 mile	10994449	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
6-19-10	10	3.5						
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		On Location	19 - Jun - 2010	05:00	CST
Job depth MD	6492. ft	Job Depth TVD	Job Started	19 - Jun - 2010	08:00	CST
Water Depth		Wk Ht Above Floor	Job Completed	19 - Jun - 2010	15:02	CST
Perforation Depth (MD) From		To	Departed Loc	19 - Jun - 2010	16:40	CST
					18:00	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
7 7/8 Open Hole				7.875				1700.	6492.		
4 1/2 Production Casing	Unknown		4.5	4.	11.6				6492.		
8 5/8 Surface Casing	Unknown		8.625	8.097	24.			1700.			

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CTRZR ASSY, TURBO, API, 4 1/2 CSG X 7 7/8	38	EA		
PLUG, CMTG, TOP, 4 1/2, HWE, 3.65 MIN/4.14 MA	1	EA		
CLAMP - LIMIT - 4-1/2 - HINGED -	2	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	4 1/2	1	h
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	4 1/2	1	h
Stage Tool										Centralizers	4 1/2	38	h

Miscellaneous Materials

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

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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	Primary Cement	POZ STANDARD 50/50 - SBM (12308)	280.0	sacks	13.5	1.75	8.43		8.43
	6 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	10 %	SALT, 100 LB BAG (100003652)							
	2 lbm	PRESSUR-SEAL LCM, 40 LB (101204356)							
	0.6 %	HALAD(R)-344, 50 LB (100003670)							
	0.5 %	D-AIR 3000 (101007446)							
	0.1 %	WG-17, 50 LB SK (100003623)							
	8.434 Gal	FRESH WATER							
2	2% KCL Displacement		102.00	bbl	8.45	.0	.0	.0	
	167 lbm/Mgal	POTASSIUM CHLORIDE - KCL, 50 LB BAG (100001585)							
3	Rat Hole Plug Cement	POZ STANDARD 50/50 - SBM (12308)		sacks	13.5	1.75	8.43		8.43
	6 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	10 %	SALT, 100 LB BAG (100003652)							
	2 lbm	PRESSUR-SEAL LCM, 40 LB (101204356)							
	0.6 %	HALAD(R)-344, 50 LB (100003670)							
	0.5 %	D-AIR 3000 (101007446)							
	0.1 %	WG-17, 50 LB SK (100003623)							
	8.434 Gal	FRESH WATER							
Calculated Values		Pressures			Volumes				
Displacement	102	Shut In: Instant		Lost Returns	0	Cement Slurry	87	Pad	
Top Of Cement	4496	5 Min		Cement Returns	0	Actual Displacement	102	Treatment	
Frac Gradient		15 Min		Spacers	0	Load and Breakdown		Total Job	189
Rates									
Circulating	10	Mixing	7	Displacement	8	Avg. Job	9		
Cement Left In Pipe	Amount	44 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature <i>M. D. King</i>					

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Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 348223		Ship To #: 278857		Quote #:		Sales Order #: 7447587	
Customer: EOG RESOURCES INC EBUSINESS				Customer Rep: Knox, M.D.			
Well Name: Hayward Farms			Well #: 18#1		API/UWI #:		
Field:		City (SAP): ROLLA		County/Parish: Morton		State: Kansas	
Legal Description:							
Lat:				Long:			
Contractor: Kenai			Rig/Platform Name/Num: 55				
Job Purpose: Cement Production Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Production Casing				
Sales Person: BLAKEY, JOSEPH			Srcv Supervisor: DEETZ, DONALD			MBU ID Emp #: 389855	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/19/2010 05:00							
Depart Yard Safety Meeting	06/19/2010 06:45							discuse routs and stops
Arrive At Loc	06/19/2010 08:00							casing crew was rigging up
Assessment Of Location Safety Meeting	06/19/2010 08:05							walk around location pount out any hazards
Pre-Rig Up Safety Meeting	06/19/2010 08:10							watch for pinch points,hammering and walking hazards
Start In Hole	06/19/2010 08:13							4 1/2 10.5 # j55 casing
Rig-Up Completed	06/19/2010 09:00							
Other	06/19/2010 09:30							went to prim up truck found deck motor wouldnt start talked to craig richmier did what he told me to do . still wouldnt start waiting on mechanic
Other	06/19/2010 11:15							craig arrived to work on pump truck
Other	06/19/2010 11:17							found engine lost prime got primed back up started ran for a little bit to be sure all air was out. truck hasent went out since pm in shop.
Casing on Bottom	06/19/2010 13:50		10	600				put on cement head circulate with rig for 1 hour
Pre-Job Safety Meeting	06/19/2010 14:30							with all personal on location

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	06/19/2010 15:02							
Pressure Test	06/19/2010 15:03							4000 psi
Pump Cement	06/19/2010 15:07		8	87			300.0	280 sks @ 13.5
Clean Lines	06/19/2010 15:23							to pit
Drop Plug	06/19/2010 15:29							top plug only
Pump Displacement	06/19/2010 15:30		9	102	189		270.0	kcl water
Bump Plug	06/19/2010 15:44							bumped plug @ 770 took to 1600 psi
Check Floats	06/19/2010 15:47							ok
Pump Cement	06/19/2010 16:20		2	15	204		100.0	plug rat & mouse hole
End Job	06/19/2010 16:40							
Pre-Rig Down Safety Meeting	06/19/2010 16:50							all hse employees present
Rig-Down Equipment	06/19/2010 17:00							
Depart Location Safety Meeting	06/19/2010 17:45							all hse employees present
Depart Location for Service Center or Other Site	06/19/2010 18:00							thanks for calling halliburton eric & crew

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Sold To #: 348223

Ship To #: 2788857

Quote #:

Sales Order #:

7447587

SUMMIT Version: 7.20.130

Saturday, June 19, 2010 04:55:00



Weatherford® Completion Systems

DRILL STEM TEST REPORT

Prepared For: **EOG Resources, Inc.**

3817 NW Expressway STE 500 OKC, OK
73112

ATTN: Mike Knox

18/33/39

Haywood Farms 18-1

Start Date: 2010.06.15 @ 08:31:27

End Date: 2010.06.15 @ 21:30:52

Job Ticket #: 37645 DST #: 1

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



DRILL STEM TEST REPORT

EOG Resources, Inc.

Haywood Farms 18-1

3817 NW Expressway STE 500 OKC, OK 73112

18/33/39

ATTN: Mike Knox

Job Ticket: 37645

DST#: 1

Test Start: 2010.06.15 @ 08:31:27

GENERAL INFORMATION:

Formation: Lower Morrow

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:08:32

Time Test Ended: 21:30:52

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Interval: 6006.00 ft (KB) To 6080.00 ft (KB) (TVD)

Total Depth: 6989.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches -hole Condition: Good

Reference Elevations: 3272.00 ft (KB)

3261.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6773

Inside

Press@RunDepth: 1273.42 psig @ 6008.00 ft (KB)

Start Date: 2010.06.15

End Date:

2010.06.15

Capacity: 8000.00 psig

Last Calib.: 2010.06.15

Start Time: 08:31:27

End Time:

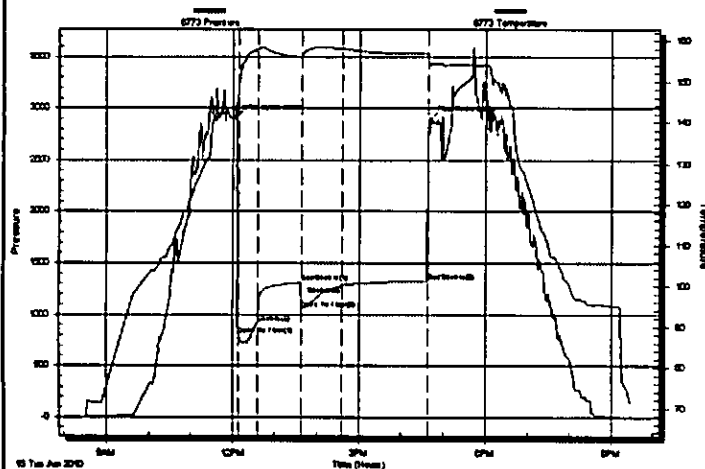
21:30:52

Time On Btm: 2010.06.15 @ 12:03:12

Time Off Btm: 2010.06.15 @ 16:41:01

TEST COMMENT: IF: BOB ASAO, GTS 2 min., strong dieing blow
IS: Blow never died
FF: BOB GTS ASAO, strong dieing blow
FS: Blow never died

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2894.73	143.78	Initial Hydro-static
6	800.96	148.85	Open To Flow (1)
33	916.34	157.99	Shut-in(1)
94	1310.35	156.06	End Shut-in(1)
94	1047.64	155.95	Open To Flow (2)
152	1273.42	158.15	Shut-in(2)
274	1324.91	157.00	End Shut-in(2)
278	2890.22	154.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2500.00	gassy water 5%G,95%W	31.71
285.00	w atery mud 20%W,80%M	4.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	5.00	557.73
Last Gas Rate	0.25	4.00	29.19
Max. Gas Rate	0.38	30.00	162.65



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DRILL STEM TEST REPORT

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

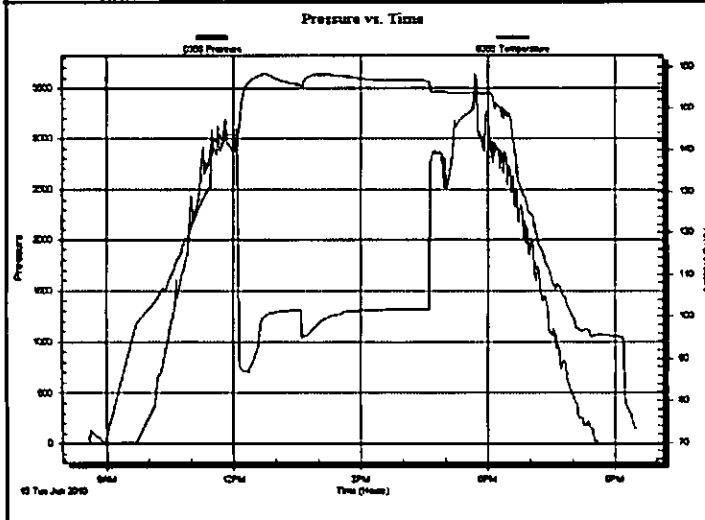
Haywood Farms 18-1
18/33/39
Job Ticket: 37645 DST#: 1
Test Start: 2010.06.15 @ 08:31:27

GENERAL INFORMATION:

Formation: **Lower Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:08:32
Time Test Ended: 21:30:52
Interval: **6006.00 ft (KB) To 6080.00 ft (KB) (TVD)**
Total Depth: **6989.00 ft (KB) (TVD)**
Hole Diameter: **7.78 inches** -hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Chris Hagman**
Unit No: **34**
Reference Elevations: **3272.00 ft (KB)**
3261.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: **8355** Inside
Press@RunDepth: psig @ 6008.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.06.15 End Date: 2010.06.15 Last Calib.: 2010.06.15
Start Time: 08:36:07 End Time: 21:31:02 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB ASAO, GTS 2 min., strong dieing blow
IS: Blow never died
FF: BOB GTS ASAO, strong dieing blow
FS: Blow never died



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2500.00	gassy water 5%G,95%W	31.71
285.00	watery mud 20%W,80%M	4.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	5.00	557.73
Last Gas Rate	0.25	4.00	29.19
Max. Gas Rate	0.38	30.00	162.65



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Completion Systems

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources, Inc.

Haywood Farms 18-1

3817 NW Expressway STE 500 OKC, OK 73112

18/33/39

ATTN: Mike Knox

Job Ticket: 37645

DST#: 1

Test Start: 2010.06.15 @ 08:31:27

Tool Information

Drill Pipe:	Length: 5615.00 ft	Diameter: 3.80 inches	Volume: 78.76 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: 20000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 130000.0 lb
			<u>Total Volume: 80.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 98000.00 lb
Depth to Top Packer:	6006.00 ft			Final 110000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	104.00 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			5977.00	
Shut In Tool	5.00			5982.00	
Sampler	3.00			5985.00	
Hydraulic tool	5.00			5990.00	
Jars	5.00			5995.00	
Safety Joint	2.00			5997.00	
Packer	5.00			6002.00	30.00 Bottom Of Top Packer
Packer	4.00			6006.00	
Stubb	1.00			6007.00	
Perforations	1.00			6008.00	
Recorder	0.00	8355	inside	6008.00	
Recorder	0.00	6773	inside	6008.00	
Perforations	5.00			6013.00	
Change Over Sub	1.00			6014.00	
Drill Pipe	62.00			6076.00	
Change Over Sub	1.00			6077.00	
Bullnose	3.00			6080.00	74.00 Bottom Packers & Anchor
Total Tool Length:	104.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources, Inc.

Haywood Farms 18-1

3817 NW Expressway STE 500 OKC, OK 73112

18/33/39

Job Ticket: 37645

DST#: 1

ATTN: Mike Knox

Test Start: 2010.06.15 @ 08:31:27

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:

70000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.95 cm²

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
2500.00	gassy water 5%G,95%W	31.707
285.00	watery mud 20%W,80%M	3.998

Total Length: 2785.00 ft Total Volume: 35.705 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: RW=.085@92F=70,000ppm

Sampler=2000ml 5%G,95%W @ 800psi



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DRILL STEM TEST REPORT

GAS RATES

EOG Resources, Inc.

Haywood Farms 18-1

3817 NW Expressway STE 500 OKC, OK 73112

18/33/39

Job Ticket: 37645

DST#: 1

ATTN: Mike Knox

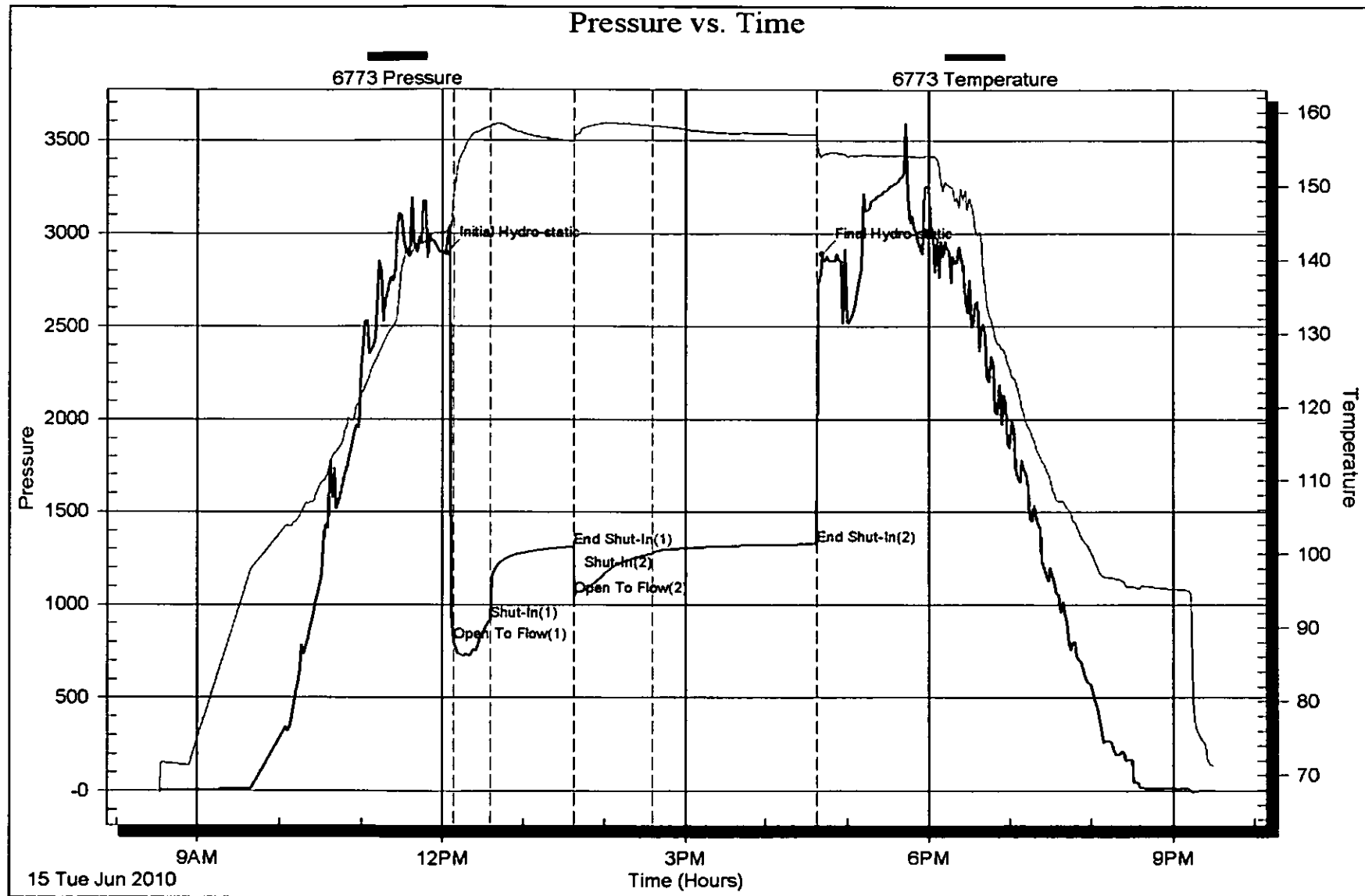
Test Start: 2010.06.15 @ 08:31:27

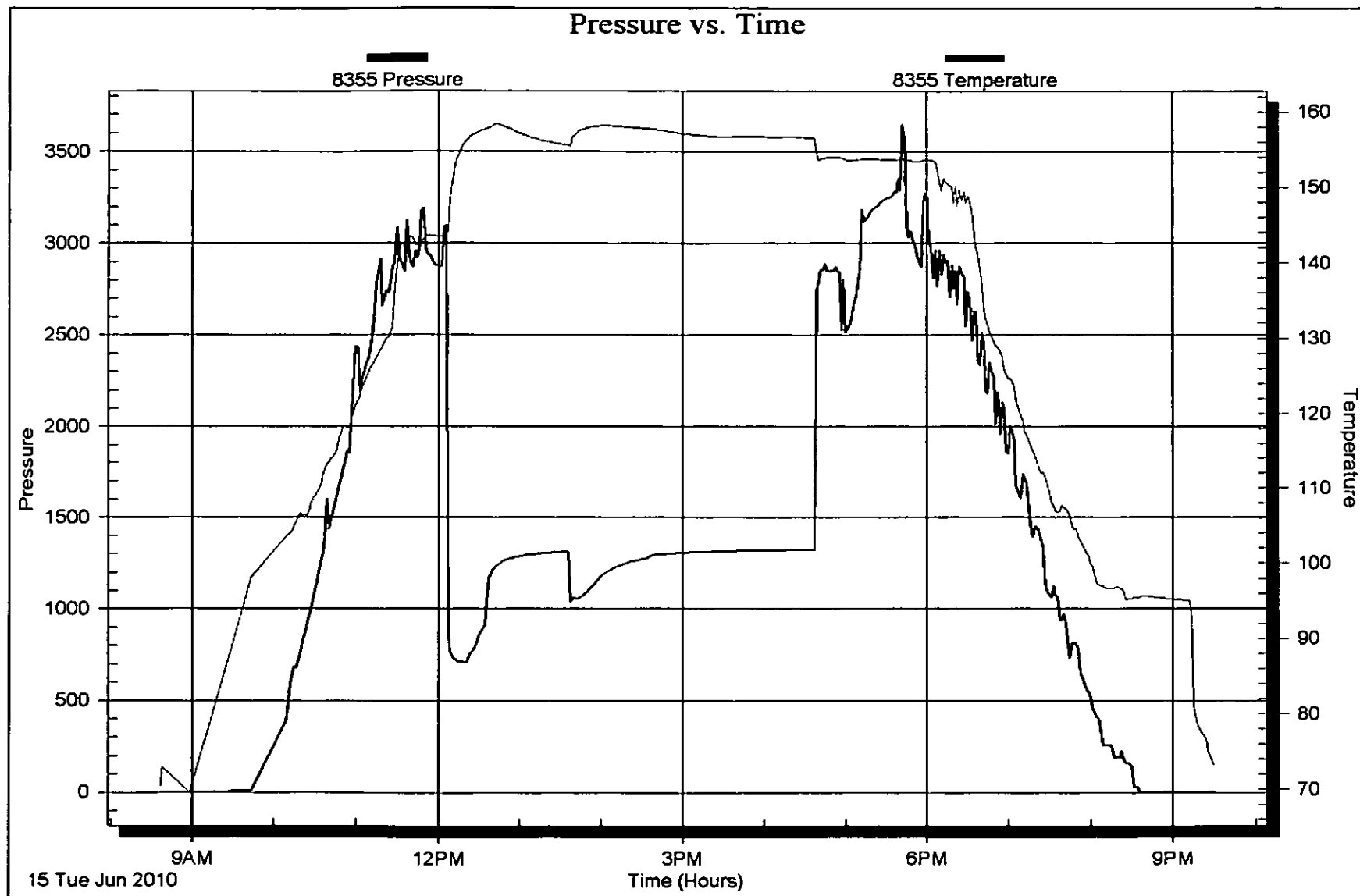
Gas Rates Information

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)
1	10	1.00	5.00	557.73
1	10	1.00	5.00	557.73
1	10	1.00	5.00	557.73
1	20	0.38	30.00	162.65
1	30	0.38	22.00	133.34
2	10	0.25	5.00	30.78
2	20	0.25	7.00	33.95
2	30	0.25	7.00	33.95
2	40	0.25	4.00	29.19
2	40	0.25	4.00	29.19







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Completion Systems

DRILL STEM TEST REPORT

Prepared For: **EOG Resources, Inc.**

3817 NW Expressway STE 500 OKC, OK
73112

ATTN: Mike Knox

18/33/39

Haywood Farms 18-1

Start Date: 2010.06.18 @ 03:44:18

End Date: 2010.06.18 @ 15:32:48

Job Ticket #: 37646 DST #: 2

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



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DRILL STEM TEST REPORT

EOG Resources, Inc.

Haywood Farms 18-1

3817 NW Expressway STE 500 OKC, OK 73112

18/33/39

ATTN: Mike Knox

Job Ticket: 37646

DST#: 2

Test Start: 2010.06.18 @ 03:44:18

GENERAL INFORMATION:

Formation: **Morrow E**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 07:01:28
 Time Test Ended: 15:32:48

Test Type: **Conventional Straddle**
 Tester: **Chris Hagman**
 Unit No: **33**

Interval: **5542.00 ft (KB) To 5928.00 ft (KB) (TVD)**
 Total Depth: **6500.00 ft (KB) (TVD)**
 Hole Diameter: **7.78 inches -hole Condition: Good**

Reference Elevations: **3272.00 ft (KB)**
3261.00 ft (CF)
 KB to GR/CF: **11.00 ft**

Serial #: 8674

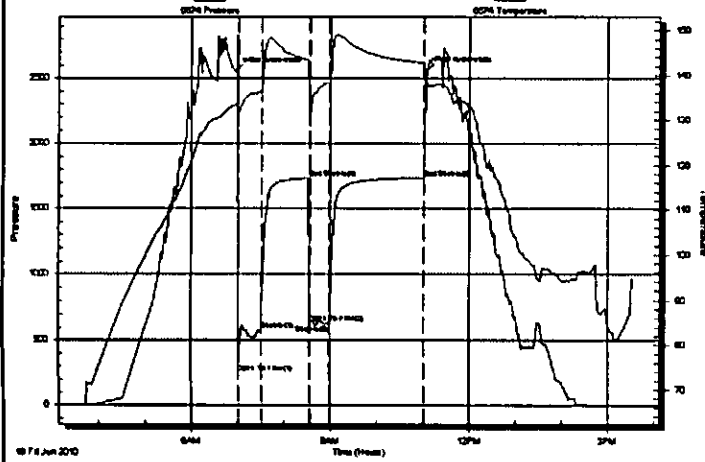
Inside

Press@RunDepth: **619.75 psig @ 5545.00 ft (KB)**
 Start Date: **2010.06.18** End Date: **2010.06.18**
 Start Time: **03:44:23** End Time: **15:32:48**

Capacity: **8000.00 psig**
 Last Calib.: **2010.06.18**
 Time On Btr: **2010.06.18 @ 06:58:08**
 Time Off Btr: **2010.06.18 @ 11:05:18**

TEST COMMENT: **IF: BOB ASAO, GTS 6 min., strong building blow**
IS: Weak surface blow back 3 min.
FF: BOB GTS ASAO, mud 15 min., strong surging blow
FSt: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2552.69	133.41	Initial Hydro-static
4	252.00	132.22	Open To Flow (1)
34	581.08	136.57	Shut-In(1)
95	1736.25	143.33	End Shut-In(1)
96	632.73	128.51	Open To Flow (2)
122	619.75	138.36	Shut-In(2)
244	1738.93	142.83	End Shut-In(2)
248	2558.85	138.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1020.00	gassy mud 5%G,95%M	10.95

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	18.00	931.46
Last Gas Rate	1.00	70.00	2426.40
Max. Gas Rate	1.00	70.00	2426.40



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Completion Systems

DRILL STEM TEST REPORT

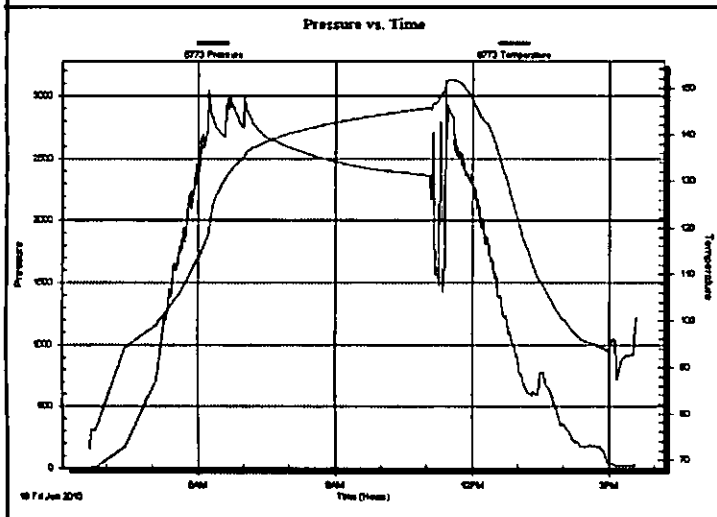
EOG Resources, Inc. **Haywood Farms 18-1**
 3817 NW Expressway STE 500 OKC, OK 73112 **18/33/39**
 ATTN: Mike Knox Job Ticket: 37646 DST#: 2
 Test Start: 2010.06.18 @ 03:44:18

GENERAL INFORMATION:

Formation: **Morrow E**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Straddle**
 Time Tool Opened: 07:01:28 Tester: **Chris Hagman**
 Time Test Ended: 15:32:48 Unit No: **33**
 Interval: **5542.00 ft (KB) To 5928.00 ft (KB) (TVD)** Reference Elevations: **3272.00 ft (KB)**
 Total Depth: **6500.00 ft (KB) (TVD)** **3261.00 ft (CF)**
 Hole Diameter: **7.78 inches** - hole Condition: **Good** KB to GR/CF: **11.00 ft**

Serial #: **6773** Outside
 Press@RunDepth: **psig @ 5929.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.06.18** End Date: **2010.06.18** Last Calib.: **2010.06.18**
 Start Time: **03:38:56** End Time: **15:36:21** Time On Btm:
 Time Off Btm:

TEST COMMENT: F: BOB ASAO, GTS 6 min., strong building blow
 IS: Weak surface blow back 3 min.
 FF: BOB GTS ASAO, mud 15 min., strong surging blow
 FS: No blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
1020.00	gassy mud 5%G,95%M	10.95

Gas Rates			
	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	18.00	931.46
Last Gas Rate	1.00	70.00	2426.40
Max. Gas Rate	1.00	70.00	2426.40



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DRILL STEM TEST REPORT

EOG Resources, Inc.

Haywood Farms 18-1

3817 NW Expressway STE 500 OKC, OK 73112

18/33/39

ATTN: Mike Knox

Job Ticket: 37646

DST#: 2

Test Start: 2010.06.18 @ 03:44:18

GENERAL INFORMATION:

Formation: **Morrow E**

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

Time Tool Opened: 07:01:28

Time Test Ended: 15:32:48

Test Type: Conventional Straddle

Tester: Chris Hagman

Unit No: 33

Interval: **5542.00 ft (KB) To 5928.00 ft (KB) (TVD)**

Total Depth: **6500.00 ft (KB) (TVD)**

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

Reference Elevations: **3272.00 ft (KB)**

3261.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8355** **Inside**

Press@RunDepth: **psig @ 5545.00 ft (KB)**

Start Date: **2010.06.18**

End Date:

2010.06.18

Capacity: **8000.00 psig**

Last Calib.:

2010.06.18

Start Time: **03:48:29**

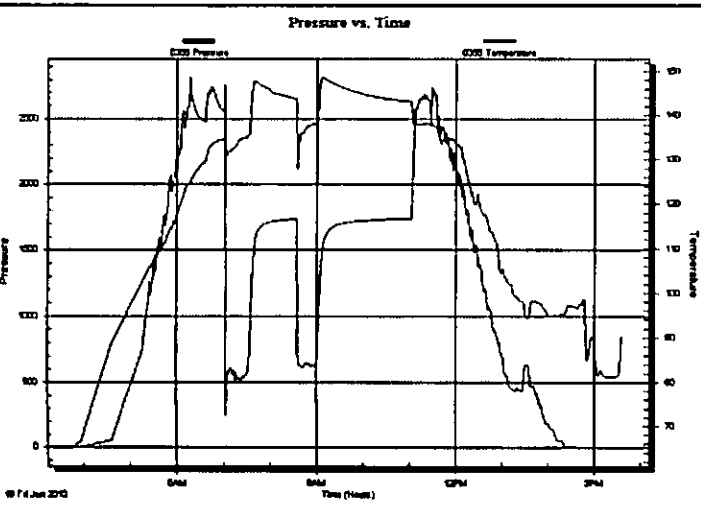
End Time:

15:35:34

Time On Btm:

Time Off Btm:

TEST COMMENT: F: BOB ASAO, GTS 6 min., strong building blow
IS: Weak surface blow back 3 min.
FF: BOB GTS ASAO, mud 15 min., strong surging blow
FSt: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1020.00	gassy mud 5%G,95%M	10.95

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	18.00	931.46
Last Gas Rate	1.00	70.00	2426.40
Max. Gas Rate	1.00	70.00	2426.40



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Completion Systems

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources, Inc.

Haywood Farms 18-1

3817 NW Expressway STE 500 OKC, OK 73112

18/33/39

ATTN: Mike Knox

Job Ticket: 37646

DST#: 2

Test Start: 2010.06.18 @ 03:44:18

Tool Information

Drill Pipe:	Length: 5156.00 ft	Diameter: 3.80 inches	Volume: 72.33 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: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 220000.0 lb
			<u>Total Volume: 74.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 108000.0 lb
Depth to Top Packer:	5542.00 ft			Final 110000.0 lb
Depth to Bottom Packer:	5924.00 ft			
Interval between Packers:	382.00 ft			
Tool Length:	989.00 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			5512.00	
Shut In Tool	5.00			5517.00	
Sampler	3.00			5520.00	
Hydraulic tool	5.00			5525.00	
Jars	5.00			5530.00	
Safety Joint	3.00			5533.00	
Packer	5.00			5538.00	31.00 Bottom Of Top Packer
Packer	4.00			5542.00	
Stubb	1.00			5543.00	
Perforations	1.00			5544.00	
Change Over Sub	1.00			5545.00	
Recorder	0.00	8355	Inside	5545.00	
Recorder	0.00	8674	Inside	5545.00	
Drill Pipe	372.00			5917.00	
Change Over Sub	1.00			5918.00	
Perforations	5.00			5923.00	
Blank Off Sub	1.00			5924.00	382.00 Tool Interval
Packer	4.00			5928.00	
Stubb	1.00			5929.00	
Recorder	0.00	6773	Outside	5929.00	
Change Over Sub	1.00			5930.00	
Drill Pipe	566.00			6496.00	
Change Over Sub	1.00			6497.00	
Bullnose	3.00			6500.00	576.00 Bottom Packers & Anchor
Total Tool Length:	989.00				



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Completion Systems

DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources, Inc.

Haywood Farms 18-1

3817 NW Expressway STE 500 OKC, OK 73112

18/33/39

Job Ticket: 37646

DST#: 2

ATTN: Mike Knox

Test Start: 2010.06.18 @ 03:44:18

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:	4800 ppm
Viscosity: 41.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.98 cm ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1020.00	gassy mud 5%G,95%M	10.947

Total Length: 1020.00 ft Total Volume: 10.947 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Sampler=7.9CF Gas @ 1100ppm
 RW=.935@92F=4800ppm



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Completion Systems

DRILL STEM TEST REPORT

GAS RATES

EOG Resources, Inc.

Haywood Farms 18-1

3817 NW Expressway STE 500 OKC, OK 73112

18/33/39

ATTN: Mike Knox

Job Ticket: 37646

DST#: 2

Test Start: 2010.06.18 @ 03:44:18

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)
1	10	1.00	18.00	931.46
1	10	1.00	18.00	931.46
1	10	1.00	18.00	931.46
1	20	1.00	26.00	1161.45
1	30	1.00	31.00	1305.20
2	10	1.00	30.00	1276.45
2	20	1.00	70.00	2426.40

