

CONFIDENTIAL

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

NOV 15 2010 11/12/10
KCC WICHITA

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. **CONFIDENTIAL**

Wellsite Geologist: _____

Purchaser: N/A

Designate Type of Completion

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

If Workover/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. _____

7/18/2010 7/29/2010 N/A

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

API NO. 15- 175-22185-00-00

Spot Description: _____

N2 - SE - SE - NE Sec. 7 Twp. 32 S. R. 34 East West

2300 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 SEWARD

Lease Name HL&C Well # 7 #1

Field Name _____

Producing Formation N/A

Elevation: Ground 2935' Kelley Bushing 2947'

Total Depth 6350' Plug Back Total Depth N/A

Amount of Surface Pipe Set and Cemented at 1717 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 API 11-1710
(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 HAYDEN, SHAWN OR BLANCHE dba HAYDEN OPERAT

Lease Name LIZ SMITH License No. 33562

Quarter _____ Sec. 26 Twp. 30 S. R. 34 East West

County HASKELL Docket No. D26802

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 11/11/2010

Subscribed and sworn to before me this 11th day of November 2010.

Notary Public Wiana J. Jeleheart Notary Public, State of Oklahoma, Commission # 09005487 Expires 07/06/13

Date Commission Expires 7/6/13

KCC Office Use ONLY
Letter of Confidentiality Attached 11/12/10
If Denied, Yes Date: 11/12/10
Wireline Log Received
Geologist Report Received
UIC Distribution

Operator Name EOG RESOURCES, INC.

Lease Name HL&C

Well # 7 #1

Sec. 7 Twp. 32 S.R. 34 East West

County SEWARD

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy)

List All E.Logs Run:

RESISTIVITY, SONIC ARRAY, MICRO, SD/DS NEUTRON & SD/DS NEUTRON MICRO.

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#	1717	MIDCON2	300	SEE ATTACHED
					CLASS 'A'	200	
PRODUCTION	7 7/8	4 1/2	10.5#	6347	50/50 POZ	245	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
2	6120' -6150'; CIBP 6111'	ACIDIZE W/3000 GALS HCL.	6120-6150
2	6062' -6072', 6079' -6084'; CIBP 6012'	ACIDIDZE W/3000 GALS HCL.	6062-6084
4	5562' -5572'		

TUBING RECORD	Size 2 3/8	Set At 5523'	Packer At N/A	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Enhr.	Producing Method
DRY - PENDING P&A	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	Production Interval _____ _____
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ACO-1 Completion Report		
Well Name : HL&C 7 #1		
FORMATION	TOP	DATUM
BASE OF HEEBNER	4178	-1231
LANSING	4294	-1347
KANSAS CITY	4563	-1616
MARMATON	4954	-2007
CHEROKEE	5135	-2188
ATOKA	5460	-2513
MORROW	5554	-2607
CHESTER	5888	-2941
ST GENEVIEVE	6194	-3247
ST LOUIS	6265	-3318

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2795839	Quote #:	Sales Order #: 7509787
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Sessions, Jackie	
Well Name: H L & C	Well #: 7 #1	API/UWI #:	
Field:	City (SAP): LIBERAL	County/Parish: Seward	State: Kansas
Contractor: KENAI	Rig/Platform Name/Num: 55	KCC	
Job Purpose: Cement Surface Casing			NOV 12 2010
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: DRAKE, BRANDON	Srvc Supervisor: SMITH, BOBBY	MBU ID Emp #: 106036	

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Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
AGUILERA, FABIAN	5	442123	ARNETT, JAMES Ray	12	226567	MATA, ADOLFO V	5	419999
SMITH, BOBBY	12	106036						
Wayne								

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			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	19 - Jul - 2010	20:00	CST
Job depth MD	1717. ft		Job Depth TVD	Job Started	19 - Jul - 2010	18:00	CST
Water Depth			Wk Ht Above Floor	Job Completed	20 - Jul - 2010	02:33	CST
Perforation Depth (MD)	From		To	Departed Loc	20 - Jul - 2010	03:52	CST
						06:30	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					1717.		
Surface Casing	Unknown		8.625	8.097	24.	8 RD (ST&C)			1717.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CENTRALIZER ASSY - API - 8-5/8 CSG X	14	EA		
CLP, LIM, 8 5/8, FRICT, WTH DOGS	4	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		
KIT, HALL WELD-A	1	EA		RECEIVED
PLUG, CMTG, TOP, 8 5/8, HWE, 7.20 MIN/8.09 MA	1	EA		

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Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			KCC WICHITA
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	Conc	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	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		107.00	bbl	8.33	.0	.0	.0	

Calculated Values

Procedures

Volumes

Displacement	Shut In: Instant	Lost Returns	Cement Slurry	Pad
Top Of Cement	5 Min	Cement Returns 01	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

M. D. Knud

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Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2795839	Quote #:	Sales Order #: 7509787
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Sessions, Jackie	
Well Name: H L & C	Well #: 7 #1	API/UWI #:	
Field:	City (SAP): LIBERAL	County/Parish: Seward	State: Kansas KCC
Legal Description:			NOV 12 2010
Lat:	Long:		
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		Srvc Supervisor: SMITH, BOBBY	MBU ID Emp #: 106036

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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Depart Location Safety Meeting	07/19/2010 17:00							
Arrive At Loc	07/19/2010 18:00							
Assessment Of Location Safety Meeting	07/19/2010 18:00							Rig circulating on bottom
Pre-Rig Up Safety Meeting	07/19/2010 18:10							
Rig-Up Completed	07/19/2010 19:00							
Call Out	07/19/2010 20:00							
Other	07/19/2010 20:00							drill pipe out of the hole casing crew rigging up.
Other	07/19/2010 21:00							casing going in the hole
Other	07/20/2010 01:45							casing on bottom rig is circulating.
Safety Meeting - Pre Job	07/20/2010 02:15							
Start Job	07/20/2010 02:33							
Test Lines	07/20/2010 02:35						3000.0	
Pump Lead Cement	07/20/2010 02:39		6	158.15			200.0	300 sx = 888 ft3 = top of cement surface
Other	07/20/2010 02:40							mud returns
Pump Tail Cement	07/20/2010 03:05		6	42.74			200.0	200 sx = 240 ft3. top of cement 1172.37 ft
Drop Top Plug	07/20/2010 03:13							
Pump Displacement	07/20/2010 03:15		10.5	0			200.0	water
Stage Cement	07/20/2010 03:26		2	87			350.0	

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Sold To #: 348223

Ship To #: 2795839

Quote #:

Sales Order #:

7509787

SUMMIT Version: 7.20.130

Tuesday, July 20, 2010 04:23:00

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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	07/20/2010 03:50		2	107.0 3		450.0	1000. 0	
Check Floats	07/20/2010 03:51							float held.
End Job	07/20/2010 03:52							61 bbls of cement back to surface.
Safety Meeting - Pre Rig-Down	07/20/2010 04:00							
Rig-Down Completed	07/20/2010 06:00							
Safety Meeting - Departing Location	07/20/2010 06:15							
Depart Location for Service Center or Other Site	07/20/2010 06:30							Thank you for calling Halliburton. Bob and crew.

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Sold To #: 348223

Ship To #: 2795839

Quote #:

Sales Order #: 7509787

SUMMIT Version: 7.20.130

Tuesday, July 20, 2010 04:23:00

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2795839	Quote #:	Sales Order #: 7532157
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Rogers, Sheila	
Well Name: HL&C	Well #: 7 #1	API/UWI #:	
Field:	City (SAP): LIBERAL	County/Parish: Seward	State: Kansas
Legal Description: Section 7 Township 32S Range 34W			
Contractor: Kenai	Rig/Platform Name/Num: 55	KCC	
Job Purpose: Cement Production Casing			NOV 12 2010
Well Type: Development Well	Job Type: Cement Production Casing		
Sales Person: DRAKE, BRANDON	Srvc Supervisor: WILTSHIRE, MERSHEK	MBU ID Emp #: 19581	CONFIDENTIAL

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HAYES, CRAIG H	8.3	449385	LOPEZ, JUAN R	8.3	198514	WILTSHIRE, MERSHEK Tonje	8.3	195811

Equipment

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

Job Hours

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

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	BHST		On Location	28 - Jul - 2010	17:00	CST
Job depth MD	6350. ft	Job Depth TVD	Job Started	28 - Jul - 2010	20:30	CST
Water Depth		Wk Ht Above Floor	Job Completed	29 - Jul - 2010	02:26	CST
Perforation Depth (MD) From		To	Job Departed Loc	29 - Jul - 2010	03:45	CST
				29 - Jul - 2010	05:00	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
Production Hole				7.875				1700.	6350.		
4 1/2" Production Casing	Unknow n		4.5	4.052	10.5				6352.7		
Surface Casing	Unknow n		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	40	EA		
CLAMP-LIMIT-4 1/2-FRICT-W/DOGS	4	EA		
PLUG,CMTG, TOP,4 1/2,HWE,3.65 MIN/4.14 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	Conc
Treatment Fld	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	Primary Cement	ECONOCEM (TM) SYSTEM (452992)	245.0	sacks	13.5	1.73	8.19		8.19
	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)							
	8.191 Gal	FRESH WATER							
2	2% KCL Displacement		100.00	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)	50.0	sacks	13.5	1.73	8.19		8.19
	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)							
	8.191 Gal	FRESH WATER							

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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
R.S. SESSON
29 July 10

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2795839	Quote #:	Sales Order #: 7532157
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Rogers, Sheila	
Well Name: HL&C	Well #: 7 #1	API/UWI #:	
Field:	City (SAP): LIBERAL	County/Parish: Seward	State: Kansas
Legal Description: Section 7 Township 32S Range 34W			
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: DRAKE, BRANDON		Srv Supervisor: WILTSHIRE, MERSHEK	MBU ID Emp #: 195811

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/28/2010 17:00							KCC
Arrive At Loc	07/28/2010 20:30							NOV 12 2010
Pre-Job Safety Meeting	07/28/2010 20:45							CONFIDENTIAL
Running In Hole	07/28/2010 21:00							WITH CASING
Start Job	07/29/2010 02:26							4 1/2" PRODUCTION CASING @ 6352.69'
Test Lines	07/29/2010 02:26						5000.0	
Pump Cement	07/29/2010 02:32		5	75			320.0	245 SKS ECONOCEM @ 13.5#
Drop Top Plug	07/29/2010 02:47		6	75			200.0	END CEMENT
Clean Lines	07/29/2010 02:48							
Pump Displacement	07/29/2010 02:53		11	100			240.0	RIG WATER WITH 2% KCL
Other	07/29/2010 03:02		2	80			450.0	SLOW RATE
Other	07/29/2010 03:10						800.0	PRESSURE BEFORE LANDING PLUG
Bump Plug	07/29/2010 03:10		2	100			1600.0	FLOAT HELD
Pump Cement	07/29/2010 03:25		2.5	15			25.0	50 SKS ECONOCEM @ 13.5# // RAT & MOUSE HOLE
Other	07/29/2010 03:37		2.5	15			25.0	END CEMENT
Clean Lines	07/29/2010 03:40							RECEIVED

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Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	07/29/2010 03:47							

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Sold To #: 348223

Ship To #: 2795839

Quote #:

Sales Order #: KCC WICHITA 7532157

SUMMIT Version: 7.20.130

Thursday, July 29, 2010 04:05:00



Weatherford® Completion Systems

DRILL STEM TEST REPORT

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

3817 NW Expressway STE 500 OKC,OK
73112

ATTN: Jackie Sessions

7/32/34

HL&C 7-1

Start Date: 2010.07.23 @ 05:38:05

End Date: 2010.07.23 @ 17:38:04

Job Ticket #: 37546 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

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Weatherford[®] Completion Systems

DRILL STEM TEST REPORT

EOG Resources, Inc.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

ATTN: Jackie Sessions

Job Ticket: 37546

DST#: 1

Test Start: 2010.07.23 @ 05:38:05

GENERAL INFORMATION:

Formation: **Upper Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:28:54

Time Test Ended: 17:38:04

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Interval: **5536.00 ft (KB) To 5575.00 ft (KB) (TVD)**

Reference Elevations: 2946.00 ft (KB)

Total Depth: 5575.00 ft (KB) (TVD)

2935.00 ft (CF)

Hole Diameter: 7.78 inches -hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: **6753**

Inside

Press@RunDepth: 53.81 psig @ 5538.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.23 End Date: 2010.07.23

Last Calib.: 2010.07.23

Start Time: 05:38:05 End Time: 17:38:04

Time On Btm: 2010.07.23 @ 10:23:44

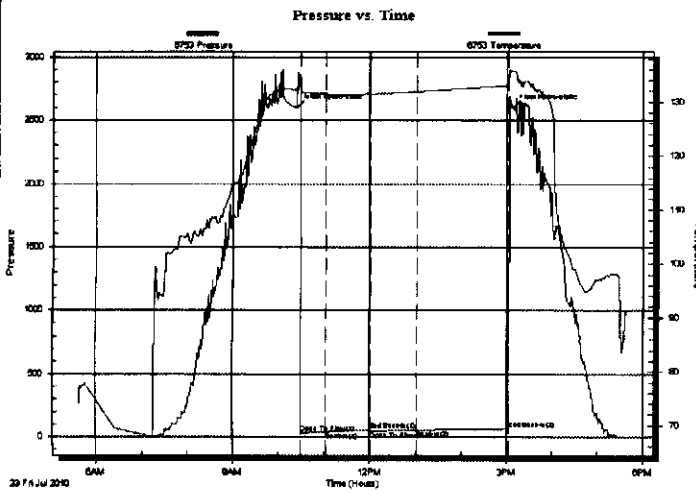
Time Off Btm: 2010.07.23 @ 15:07:44

TEST COMMENT: F: Weak surface blow, died 10 min.

IS: No blow back

FF: No blow

FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2600.77	132.31	Initial Hydro-static
6	30.85	131.81	Open To Flow (1)
39	40.23	131.46	Shut-in(1)
97	56.92	131.50	End Shut-in(1)
98	44.59	131.42	Open To Flow (2)
158	53.81	131.91	Shut-in(2)
279	64.76	133.05	End Shut-in(2)
285	2599.08	135.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	100%M	0.44

Gas Rates

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



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DRILL STEM TEST REPORT

EOG Resources, Inc.
3817 NW Expressway STE 500 OKC, OK 73112
ATTN: Jackie Sessions

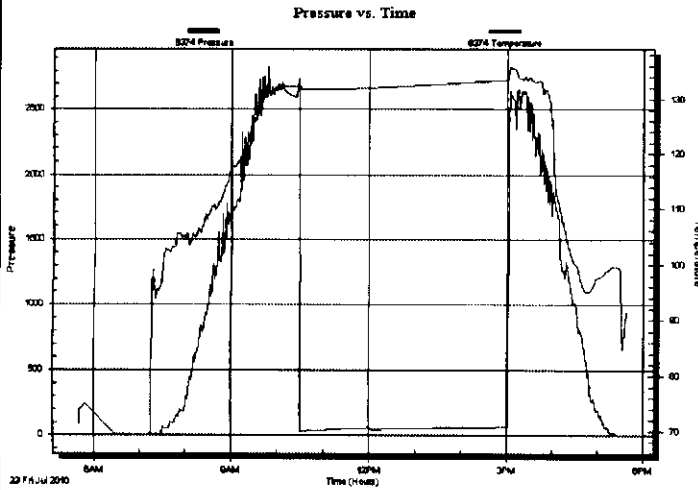
HL&C 7-1
7/32/34
Job Ticket: 37546 DST#: 1
Test Start: 2010.07.23 @ 05:38:05

GENERAL INFORMATION:

Formation: **Upper Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:28:54
Time Test Ended: 17:38:04
Interval: **5536.00 ft (KB) To 5575.00 ft (KB) (TVD)**
Total Depth: 5575.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches -hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chris Hagman
Unit No: 34
Reference Elevations: 2946.00 ft (KB)
2935.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8374 **Inside**
Press@RunDepth: psig @ 5538.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.07.23 End Date: 2010.07.23 Last Calib.: 2010.07.23
Start Time: 05:41:45 End Time: 17:38:24 Time On Btm:
Time Off Btm:

TEST COMMENT: F: Weak surface blow, died 10 min.
IS: No blow back
FF: No blow
FS: No blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
90.00	100%M	0.44

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources, Inc.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

Job Ticket: 37546

DST#: 1

ATTN: Jackie Sessions

Test Start: 2010.07.23 @ 05:38:05

Tool Information

Drill Pipe:	Length: 5145.00 ft	Diameter: 3.80 inches	Volume: 72.17 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: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 73.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 92000.00 lb
Depth to Top Packer:	5536.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	70.00 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			5506.00	
Shut In Tool	5.00			5511.00	
Sampler	3.00			5514.00	
Hydraulic tool	5.00			5519.00	
Jars	5.00			5524.00	
Safety Joint	3.00			5527.00	
Packer - Shale	5.00			5532.00	
Packer	4.00			5536.00	31.00 Bottom Of Top Packer
Stubb	1.00			5537.00	
Perforations	1.00			5538.00	
Recorder	0.00	8374	Inside	5538.00	
Recorder	0.00	6753	Inside	5538.00	
Change Over Sub	1.00			5539.00	
Drill Pipe	32.00			5571.00	
Change Over Sub	1.00			5572.00	
Bullnose	3.00			5575.00	39.00 Anchor Tool
Total Tool Length:	70.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources, Inc.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

Job Ticket: 37546

DST#: 1

ATTN: Jackie Sessions

Test Start: 2010.07.23 @ 05:38:05

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:

3700 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.77 cm²

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
90.00	100%M	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=1.208@95F=3700ppm

Sampler=4000ml mud @ 50 psi



DRILL STEM TEST REPORT

GAS RATES

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EOG Resources, Inc.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

Job Ticket: 37546

DST#: 1

ATTN: Jackie Sessions

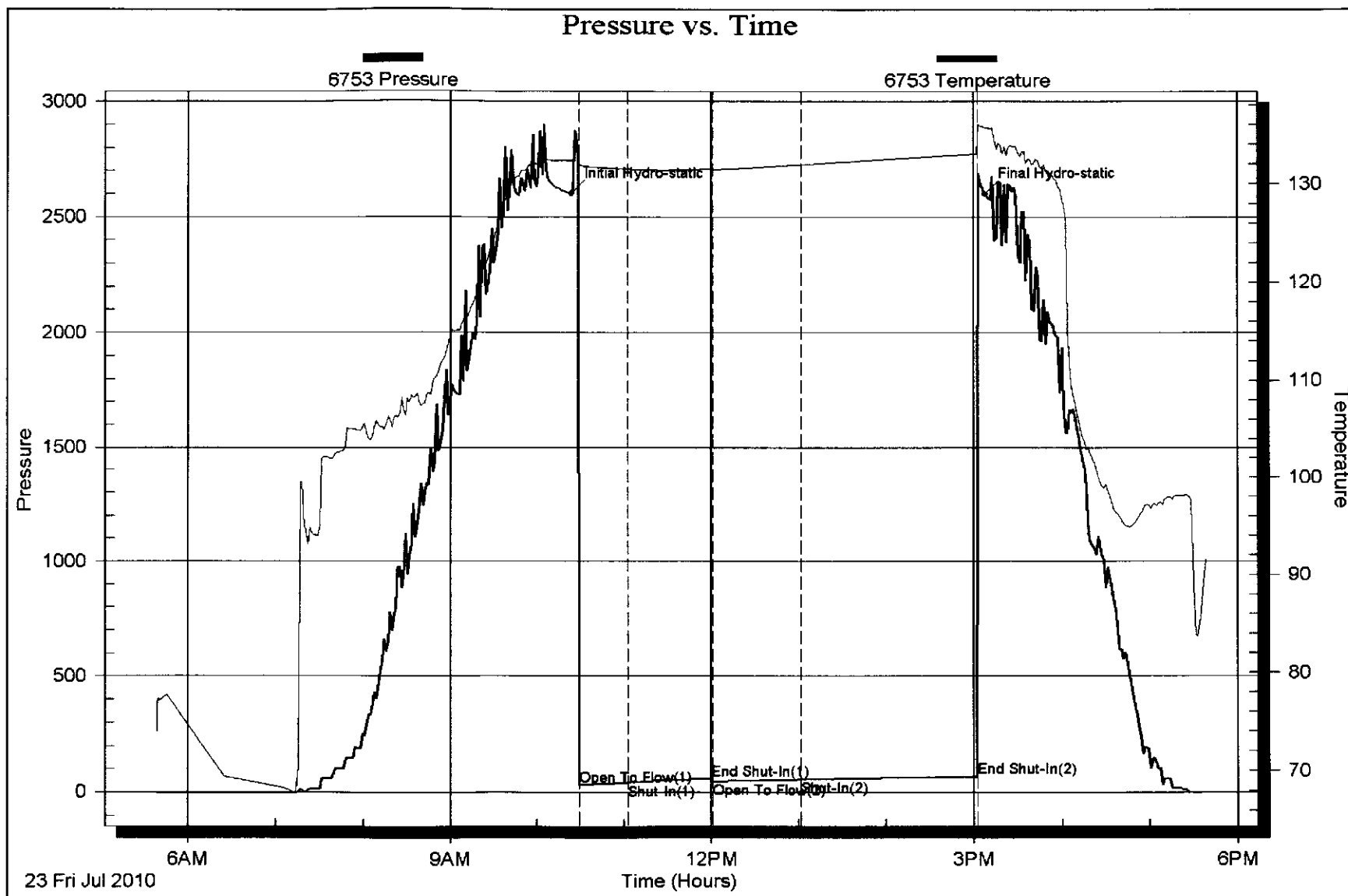
Test Start: 2010.07.23 @ 05:38:05

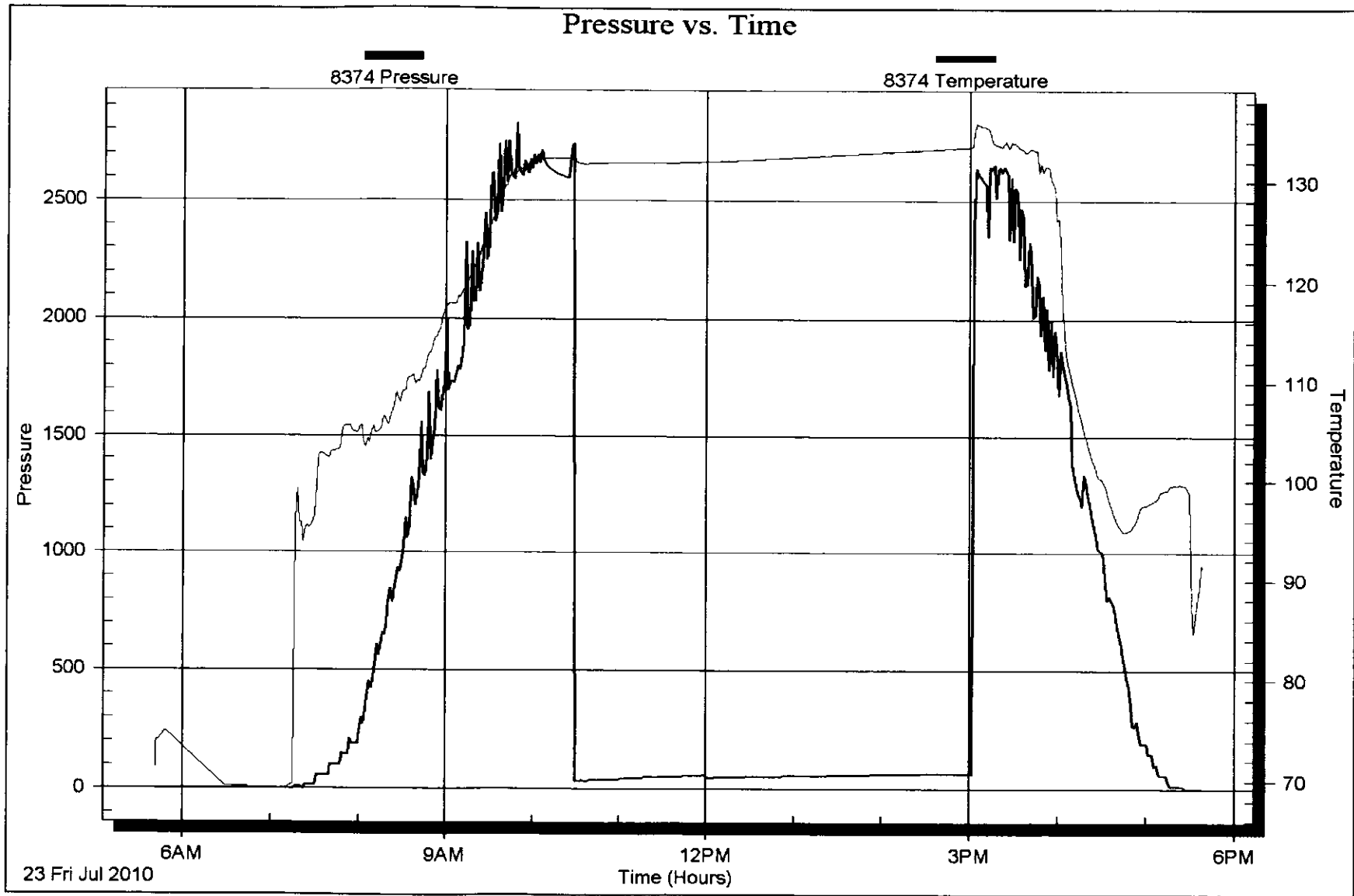
Gas Rates Information

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

Gas Rates Table

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







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DRILL STEM TEST REPORT

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

3817 NW Expressway STE 500 OKC,OK
73112

ATTN: Jackie Sessions

7/32/34

HL&C 7-1

Start Date: 2010.07.25 @ 03:22:50

End Date: 2010.07.25 @ 16:43:38

Job Ticket #: 37547 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.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

Job Ticket: 37547

DST#: 2

ATTN: Jackie Sessions

Test Start: 2010.07.25 @ 03:22:50

GENERAL INFORMATION:

Formation: **Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:43:59

Time Test Ended: 16:43:38

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Interval: **6000.00 ft (KB) To 6130.00 ft (KB) (TVD)**

Reference Elevations: 2946.00 ft (KB)

Total Depth: 6130.00 ft (KB) (TVD)

2935.00 ft (CF)

Hole Diameter: 7.78 inches -hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: **6753**

Inside

Press@RunDepth: 675.97 psig @ 6002.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.25

End Date:

2010.07.25

Last Calib.:

2010.07.25

Start Time: 03:22:50

End Time:

16:43:38

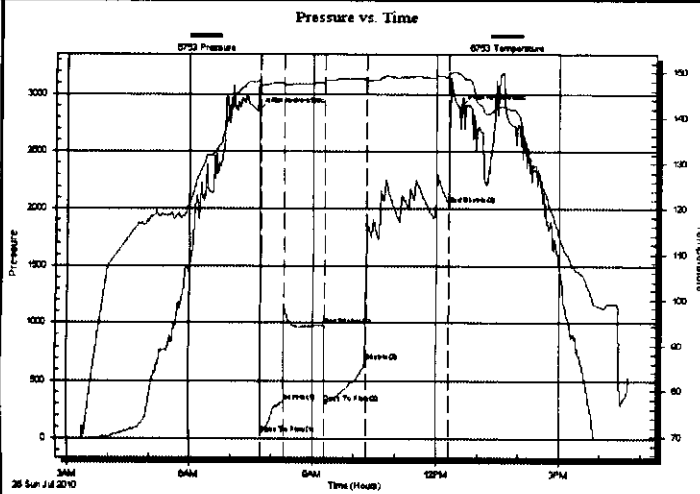
Time On Btm:

2010.07.25 @ 07:39:59

Time Off Btm:

2010.07.25 @ 12:34:08

TEST COMMENT: IF: BOB 25 min., strong building blow
IS: No blow back
FF: BOB 25 min., strong building blow
FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2854.13	148.13	Initial Hydro-static
4	44.01	147.19	Open To Flow (1)
38	312.99	147.88	Shut-In(1)
98	981.68	147.81	End Shut-In(1)
98	306.95	148.28	Open To Flow (2)
158	675.97	148.69	Shut-In(2)
279	2043.51	149.06	End Shut-In(2)
295	2883.02	149.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
676.00	100%M	6.11

Gas Rates

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



DRILL STEM TEST REPORT

EOG Resources, Inc.
 3817 NW Expressway STE 500 OKC, OK 73112
 ATTN: Jackie Sessions

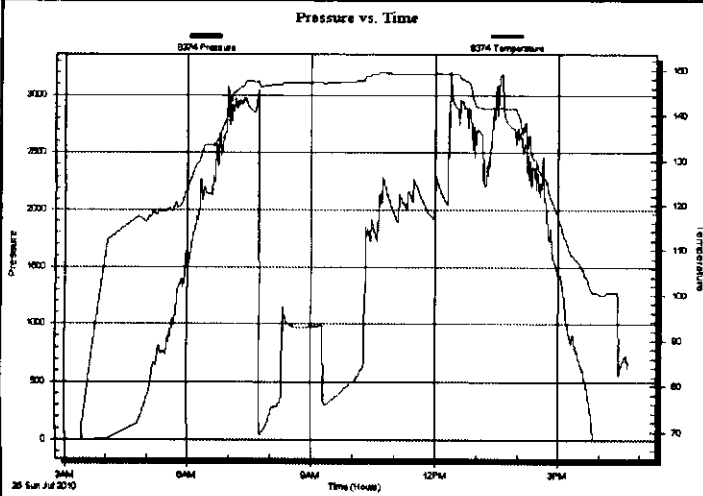
HL&C 7-1
 7/32/34
 Job Ticket: 37547 DST#: 2
 Test Start: 2010.07.25 @ 03:22:50

GENERAL INFORMATION:

Formation: **Chester**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:43:59
 Time Test Ended: 16:43:38
 Interval: **6000.00 ft (KB) To 6130.00 ft (KB) (TVD)**
 Total Depth: 6130.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches -hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Chris Hagman
 Unit No: 34
 Reference Elevations: 2946.00 ft (KB)
 2935.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: **8374** Inside
 Press@RunDepth: psig @ 6002.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.07.25 End Date: 2010.07.25 Last Calib.: 2010.07.25
 Start Time: 03:26:10 End Time: 16:43:49 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB 25 min., strong building blow
 IS: No blow back
 FF: BOB 25 min., strong building blow
 FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
676.00	100%M	6.11

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources, Inc.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

Job Ticket: 37547

DST#: 2

ATTN: Jackie Sessions

Test Start: 2010.07.25 @ 03:22:50

Tool Information

Drill Pipe:	Length: 5610.00 ft	Diameter: 3.80 inches	Volume: 78.69 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: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 80.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 96000.00 lb
Depth to Top Packer:	6000.00 ft			Final 97000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	130.00 ft			
Tool Length:	161.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Hit bridge, stacked out @ 60,000 lbs (in surface pipe), worked through it communication around packers, graphs no good missrun

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5970.00	
Shut In Tool	5.00			5975.00	
Sampler	3.00			5978.00	
Hydraulic tool	5.00			5983.00	
Jars	5.00			5988.00	
Safety Joint	3.00			5991.00	
Packer - Shale	5.00			5996.00	
Packer	4.00			6000.00	31.00 Bottom Of Top Packer
Stubb	1.00			6001.00	
Perforations	1.00			6002.00	
Recorder	0.00	8374	Inside	6002.00	
Recorder	0.00	6753	Inside	6002.00	
Perforations	29.00			6031.00	
Change Over Sub	1.00			6032.00	
Drill Pipe	94.00			6126.00	
Change Over Sub	1.00			6127.00	
Bullnose	3.00			6130.00	130.00 Anchor Tool
Total Tool Length:	161.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources, Inc.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

Job Ticket: 37547

DST#: 2

ATTN: Jackie Sessions

Test Start: 2010.07.25 @ 03:22:50

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:

3200 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
676.00	100%M	6.112

Total Length: 676.00 ft

Total Volume: 6.112 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler=4000ml mud @ 625 psi

RW=1.435@94F=3200ppm



DRILL STEM TEST REPORT

GAS RATES

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EOG Resources, Inc.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

ATTN: Jackie Sessions

Job Ticket: 37547

DST#: 2

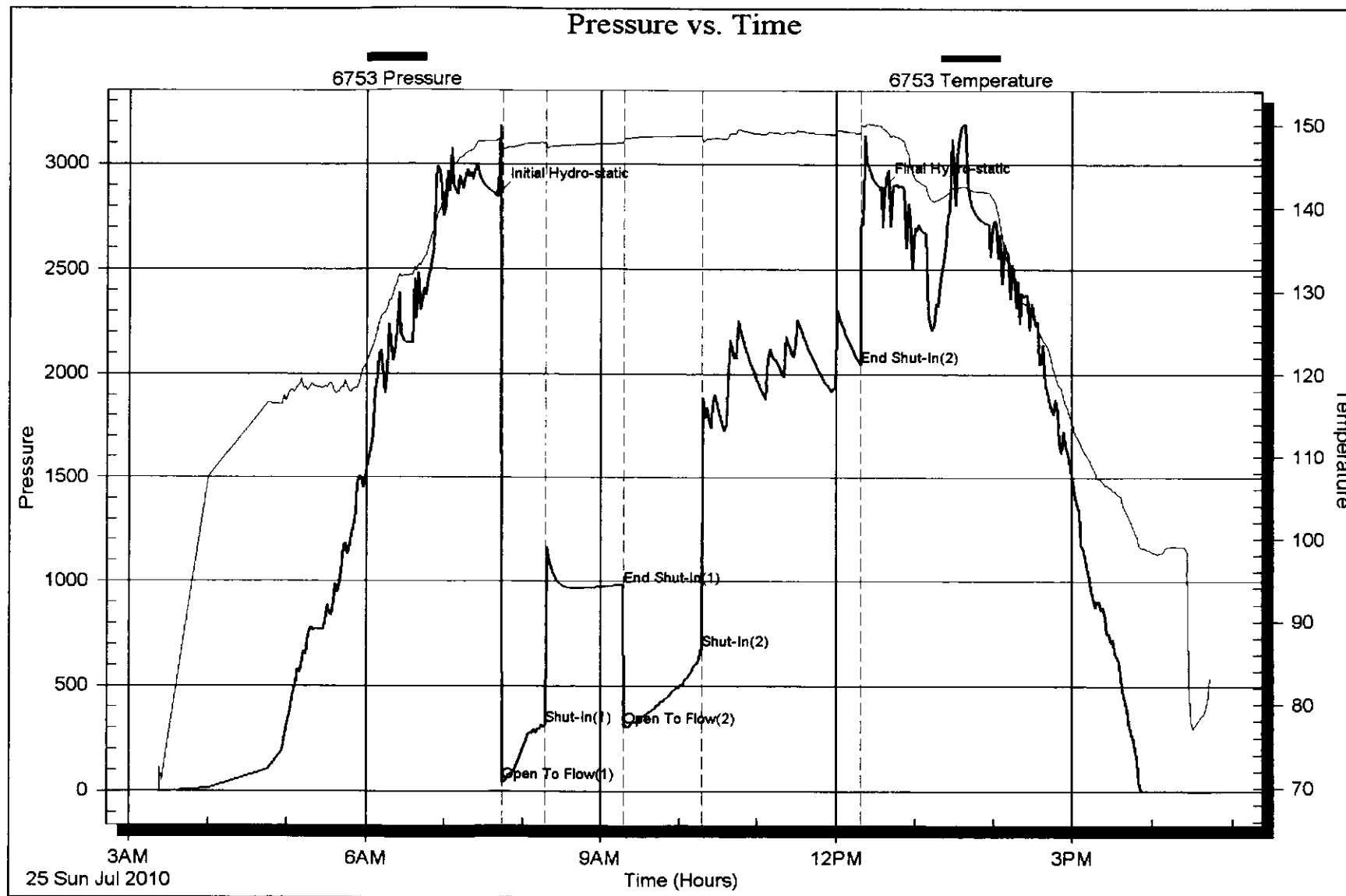
Test Start: 2010.07.25 @ 03:22:50

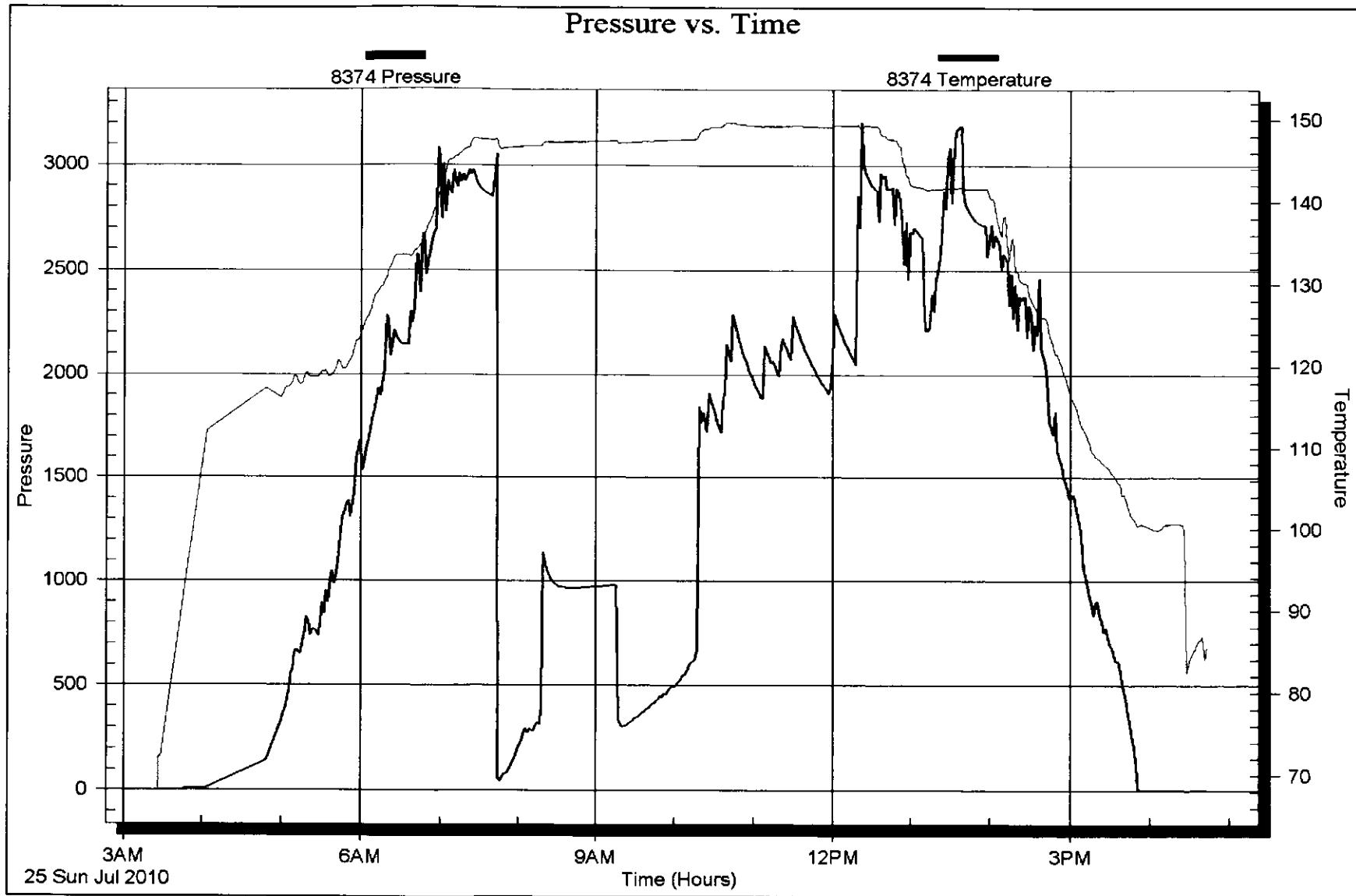
Gas Rates Information

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

Gas Rates Table

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







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DRILL STEM TEST REPORT

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

3817 NW Expressway STE 500 OKC,OK
73112

ATTN: Jackie Sessions

7/32/34

HL&C 7-1

Start Date: 2010.07.26 @ 00:00:00

End Date:

Job Ticket #: 37548

DST #: 3

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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.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

ATTN: Jackie Sessions

Job Ticket: 37548

DST#: 3

Test Start: 2010.07.26 @ 00:00:00

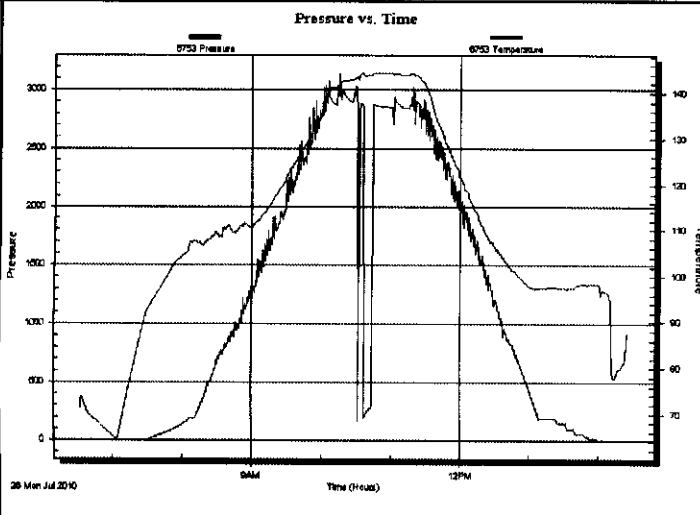
GENERAL INFORMATION:

Formation: Basal Chester	Test Type: Conventional Bottom Hole
Deviated: No Whipstock: ft (KB)	Tester: Chris Hagman
Time Tool Opened:	Unit No: 34
Time Test Ended:	Reference Elevations: 2946.00 ft (KB)
Interval: 6070.00 ft (KB) To 6156.00 ft (KB) (TVD)	2935.00 ft (CF)
Total Depth: 6156.00 ft (KB) (TVD)	KB to GR/CF: 11.00 ft
Hole Diameter: 7.78 inches -hole Condition: Good	

Serial #: 6753 Inside

Press@RunDepth: psig @ 6072.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2010.07.26 End Date: 2010.07.26	Last Calb.: 2010.07.26
Start Time: 06:32:36 End Time: 14:25:35	Time On Btm:
	Time Off Btm:

TEST COMMENT: **F: Packers did not seat, tried tw ice, pulled tool**



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

Recovery		
Length (ft)	Description	Volume (bbl)
400.00	100%M	2.24

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



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DRILL STEM TEST REPORT

EOG Resources, Inc.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

Job Ticket: 37548

DST#: 3

ATTN: Jackie Sessions

Test Start: 2010.07.26 @ 00:00:00

GENERAL INFORMATION:

Formation: **Basal Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole

Tester: Chris Hagman

Unit No: 34

Interval: **6070.00 ft (KB) To 6156.00 ft (KB) (TVD)**

Total Depth: 6156.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches -hole Condition: Good

Reference Elevations: 2946.00 ft (KB)

2935.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8374** Inside

Press@RunDepth: psig @ 6072.00 ft (KB)

Start Date: 2010.07.26 End Date: 2010.07.26

Start Time: 06:36:00 End Time: 14:25:59

Capacity: 8000.00 psig

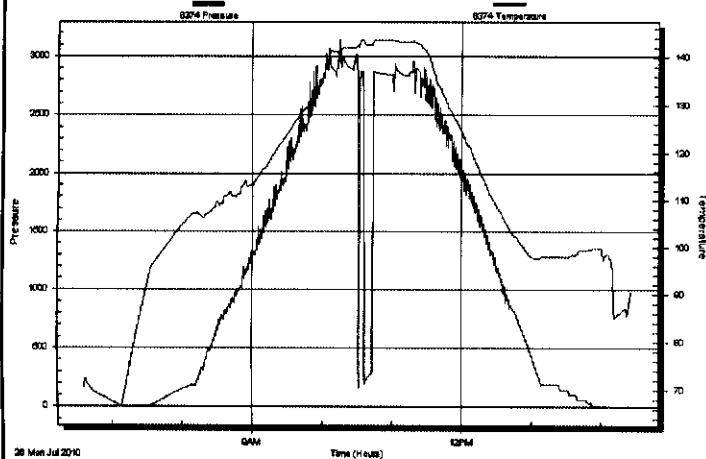
Last Calib.: 2010.07.26

Time On Btm:

Time Off Btm:

TEST COMMENT: **F: Packers did not seat, tried twice, pulled tool**

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
400.00	100%M	2.24

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources, Inc.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

Job Ticket: 37548

DST#: 3

ATTN: Jackie Sessions

Test Start: 2010.07.26 @ 00:00:00

Tool Information

Drill Pipe:	Length: 5678.00 ft	Diameter: 3.80 inches	Volume: 79.65 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: 40000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 81.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 100000.0 lb
Depth to Top Packer:	6070.00 ft			Final 100000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Packers did not seat, tried twice, pulled tool

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			6040.00	
Shut In Tool	5.00			6045.00	
Sampler	3.00			6048.00	
Hydraulic tool	5.00			6053.00	
Jars	5.00			6058.00	
Safety Joint	3.00			6061.00	
Packer - Shale	5.00			6066.00	
Packer	4.00			6070.00	31.00 Bottom Of Top Packer
Stubb	1.00			6071.00	
Perforations	1.00			6072.00	
Recorder	0.00	8374	Inside	6072.00	
Recorder	0.00	6753	Inside	6072.00	
Perforations	16.00			6088.00	
Change Over Sub	1.00			6089.00	
Drill Pipe	63.00			6152.00	
Change Over Sub	1.00			6153.00	
Bullnose	3.00			6156.00	86.00 Anchor Tool
Total Tool Length:	117.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources, Inc. **HL&C 7-1**
 3817 NW Expressway STE 500 OKC,OK 73112 **7/32/34**
 Job Ticket: 37548 **DST#: 3**
 ATTN: Jackie Sessions Test Start: 2010.07.26 @ 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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.00 cm ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
400.00	100%M	2.240

Total Length: 400.00 ft Total Volume: 2.240 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

Weatherford[®]
Completion Systems

EOG Resources, Inc.

HL&C 7-1

3817 NW Expressway STE 500 OKC, OK 73112

7/32/34

ATTN: Jackie Sessions

Job Ticket: 37548

DST#: 3

Test Start: 2010.07.26 @ 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 ³ /d)
		0.00	0.00	0.00

