

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

2/22/08  
**ORIGINAL**

Form ACO-1  
September 1999  
Form must be Typed

**WELL COMPLETION FORM**

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

Operator: License # 5278

Name: EOG Resources, Inc.

Address 3817 NW Expressway, Suite 500

City/State/Zip Oklahoma City, Oklahoma 73112

Purchaser: Anadarko Petroleum Co.

Operator Contact Person: Terry Foster

Phone ( 405 ) 246-3152

Contractor: Name: G&F Resources ABERGROMBIE RTD, INC.

License: 30684

Wellsite Geologist: \_\_\_\_\_

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abd.

Gas  ENHR  SIGW

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./SWD

Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_

Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

Other (SWD or Enhr?) \_\_\_\_\_ Docket No. \_\_\_\_\_

1/13/08 1/20/08 2/22/08

Spud Date or Date Reached TD Completion Date or

Recompletion Date Recompletion Date

API NO. 15- 189-22631-00-00

County Stevens

     -      - E2 - SW Sec. 1 Twp. 33 S. R. 38  E  W

1320 Feet from S/N (circle one) Line of Section

1980 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one)  NE  SE  NW  SW

Lease Name Savage Heirs Well # 1 #1

Field Name Gentzler

Producing Formation Morrow

Elevation: Ground 3147' Kelley Bushing 3159'

Total Depth 6600' Plug Back Total Depth 6439'

Amount of Surface Pipe Set and Cemented at 1695 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 3401 Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content 4000 ppm Fluid volume 1000 bbls

Dewatering method used Evaporation

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

Operator Name \_\_\_\_\_

Lease Name RECEIVED KANSAS CORPORATION COMMISSION

Quarter \_\_\_\_\_ Sec. FEB 26 2008 R.  E  W

County CONSERVATION DIVISION WICHITA, KS

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 Terry Foster

Title Sr. Regulatory Administrator Date 2/25/08

Subscribed and sworn to before me this 25th day of February, 2008.

Notary Public Kaye Dawn Rockel State of Oklahoma

Date Commission Expires 4/21/08

**KCC Office Use ONLY**

- Letter of Confidentiality Attached
- If Denied, Yes  Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution

Operator Name EOG Resources, Inc.

Lease Name Savage Heirs Well # 1 #1

Sec. 1 Twp. 33 S.R. 38  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. 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 (Attach Additional Sheets.)  Yes  No  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run (Submit Copy.)  Yes  No

Log Formation (Top), Depth and Datums  Sample

Name Top Datum

See Attached

List All E.Logs Run:

Cement Bond, Array Comp Resist, Microlog, Spectral Density Dual Spaced Neutron and Neutron Microlog, and Array Sonic.

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#	1695	Midcon 2 PP	380	See Attached
					PP	180	See Attached
Production	7-7/8"	5-1/2"	17# & 15.5#	6480	POZ PP Plus	310	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	5671' -5675'	None	

TUBING RECORD		Size <u>2-3/8"</u>	Set At <u>5653'</u>	Packer At <u>N/A</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enh. <u>2/15/08</u>			Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours <u>2/23/08</u>	Oil Bbls. <u>20</u>	Gas Mcf <u>3950</u>	Water Bbls. <u>0</u>	Gas-Oil Ratio <u>197.500</u>	Gravity <u>0.6884</u>

Disposition of Gas: METHOD OF COMPLETION Production Interval

Vented  Sold  Used on Lease  Open Hole  Perforation  Dually Comp.  Commingled

(If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_

<b>ACO-1 Completion Report</b>		
Well Name : <b>SAVAGE HEIRS 1 #1</b>		
<b>FORMATION</b>	<b>TOP</b>	<b>DATUM</b>
BASE OF HEEBNER	4069	-910
MARMATON	4865	-1706
CHEROKEE	5101	-1942
ATOKA	5528	-2369
MORROW	5648	-2489
CHESTER	6210	-3051
ST GENEVIEVE	6283	-3124
ST LOUIS	6346	-3187

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**FEB 26 2008**

CONSERVATION DIVISION  
WICHITA, KS

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FEB 22 2008

HALLIBURTON

KCC

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2625165	Quote #:	Sales Order #: 5616681
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Nutter, Herb	
Well Name: Savage Heirs	Well #: 1#1	API/UWI #:	
Field:	City (SAP): UNKNOWN	County/Parish: Stevens	State: Kansas
Contractor: ABERCROMBIE		Rig/Platform Name/Num: 2	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: BLAKEY, JOSEPH		Srvc Supervisor: CHAVEZ, ERIK	MBU ID Emp #: 324693

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRAODFOOT, RYAN	8.0	431899	CHAVEZ, ERIK Adrain	8.0	324693	KING, ANDREW K	8.0	423271
TREADWELL, GARY	8.0	TWS						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10219237	50 mile	10286731	50 mile	10415642	50 mile	54029	50 mile
54218	50 mile	6612	50 mile	D0565	50 mile		

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	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	13 - Jan - 2008	22:30	CST
Form Type		BHST	On Location	14 - Jan - 2008	01:30	CST
Job depth MD	1698.4 ft	Job Depth TVD	Job Started	14 - Jan - 2008	07:20	CST
Water Depth		Wk Ht Above Floor	Job Completed	14 - Jan - 2008	08:23	CST
Perforation Depth (MD)	From	To	Departed Loc	14 - Jan - 2008	09:30	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					1700.		
Surface Casing	New		8.625	8.097	24.				1695.2		

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

Description	Qty	Qty uom	Depth	Supplier
SHOE,GID,8-5/8 8RD	1	EA		RECEIVED KANSAS CORPORATION COMMISSION FEB 26 2008 CONSERVATION DIVISION WICHITA, KS
CLR,FLT,TROPHY SEAL,8-5/8 8RD	1	EA		
AUTOFILL KIT,TROPHY SEAL	1	EA		
CENTRALIZER ASSY - API - 8-5/8 CSG X	12	EA		
CLP,LIM,8 5/8,FRICT,WTH DOGS	1	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		
SUGAR - GRANULATED	50	LB		

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			

# HALLIBURTON

# Cementing Job Summary

Miscellaneous Materials										
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%			
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty				
Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Lead Cement	MIDCON-2 CEMENT PREMIUM PLUS - SBM (15079)	380.0	sacks	11.4	2.96	18.14		18.14	
	3 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)								
	0.25 lbm	POLY-E-FLAKE (101216940)								
	0.1 %	WG-17, 50 LB SK (100003623)								
	18.138 Gal	FRESH WATER								
2	Tail Cement	CMT - PREMIUM PLUS CEMENT (100012205)	180.0	sacks	14.8	1.34	6.32		6.32	
	94 lbm	CMT - PREMIUM PLUS - CLASS C REG OR TYPE III, BULK (100012205)								
	6.324 Gal	FRESH WATER								
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)								
	0.25 lbm	POLY-E-FLAKE (101216940)								
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	44.56 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>Larry Taylor</i>						

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KANSAS CORPORATION COMMISSION

FEB 26 2008

CONSERVATION DIVISION  
WICHITA, KS

# HALLIBURTON

## Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2625165	Quote #:	Sales Order #: 5616681
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Nutter, Herb	
Well Name: Savage Heirs	Well #: 1#1	API/UWI #:	
Field:	City (SAP): UNKNOWN	County/Parish: Stevens	State: Kansas
Legal Description:			
Lat:		Long:	
Contractor: ABERCROMBIE		Rig/Platform Name/Num: 2	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: BLAKEY, JOSEPH		Srvc Supervisor: CHAVEZ, ERIK	MBU ID Emp #: 324693

Activity Description	Date/Time	Cnt #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/13/2008 22:30							
Safety Meeting	01/13/2008 23:00							
Arrive at Location from Service Center	01/14/2008 01:30							RECEIVED KANSAS CORPORATION COMMISSION
Assessment Of Location Safety Meeting	01/14/2008 01:45							FEB 26 2008
Safety Meeting - Pre Rig-Up	01/14/2008 07:00							CONSERVATION DIVISION WICHITA, KS
Start Job	01/14/2008 07:14							
Test Lines	01/14/2008 07:15						3000.0	
Pump Lead Cement	01/14/2008 07:20		6	158	0		223.0	300 SKS @ 11.4 PPG
Pump Tail Cement	01/14/2008 07:48		6	43	158		147.0	180 SKS @ 14.8 PPG
Shutdown	01/14/2008 07:59				201			DROP PLUG
Pump Displacement	01/14/2008 08:01		6	105	0		36.0	FRESH WATER
Stage Cement	01/14/2008 08:16		2		95		400.0	
Bump Plug	01/14/2008 08:20		2		105		900.0	TEST FLOATS PRESSURE UP TO 500 OVER PLP
Pressure Up	01/14/2008 08:21							FLOATS HELD
Safety Meeting - Pre Rig-Down	01/14/2008 08:25							THANK YOU FOR CALLING HALLIBURTON
End Job	01/14/2008 09:30							ERIK CHAVEZ

Sold To #: 7.20.130

Ship To #:

Quote #:

Sales Order #:

SUMMIT Version:

Monday, January 14, 2008 08:55:00

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FEB 22 2008

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HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 348223	Ship To #: 2625165	Quote #:	Sales Order #: 5633458
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Taylor, Larry	
Well Name: Savage Heirs		Well #: 1#1	API/UWI #:
Field:	City (SAP): UNKNOWN	County/Parish: Stevens	State: Kansas
Contractor: ABERCROMBIE		Rig/Platform Name/Num: 2	
Job Purpose: Cement Multiple Stages			
Well Type: Development Well		Job Type: Cement Multiple Stages	
Sales Person: BLAKEY, JOSEPH		Srvc Supervisor: COBLE, RANDALL	MBU ID Emp #: 347700

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
COBLE, RANDALL Gene	19.5	347700	EVANS, JOSHUA Allen	19.5	427571	GRAVES, JEREMY L	19.5	399155

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10244148	50 mile	10251401C	50 mile	10286731	50 mile	10825713	50 mile
D0132	50 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
01-22-08	19.5	4						
<b>TOTAL</b>			Total is the sum of each column separately					

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				21 - Jan - 2008	22:00	CST	
Form Type			BHST	On Location	22 - Jan - 2008	00:30	CST
Job depth MD	6485. ft		Job Depth TVD	Job Started	22 - Jan - 2008	12:00	CST
Water Depth			Wk Ht Above Floor	Job Completed	22 - Jan - 2008	18:41	CST
Perforation Depth (MD) From		To		Departed Loc	22 - Jan - 2008	20:00	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
Surface Hole				12.25		RECEIVED			1700.		
Surface Casing	Used		8.625	8.097	24.	KANSAS CORPORATION COMMISSION			1700.		
Production Casing	New		5.5	4.95	15.5	FEB 26 2008	J-55		6600.		
Production Hole				7.875				1700.	6600.		
Multiple Stage Cementer	Used					CONSERVATION DIVISION WICHITA, KS			3400.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	5.5	1	COMP	6483'	Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	5.5	1	COMP	6446'	Retainer					MSC plug set	5.5	1	COMP
Insert Float										Plug Container	5.5	1	HES
Stage Tool	5.5	1	COMP	3401'						Centralizers	5.5	40	COMP

Miscellaneous Materials

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

# HALLIBURTON

# Cementing Job Summary

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	MUD FLUSH II	MUD FLUSH II - SBM (508007)	20.00	bbf	8.4	.0	.0	.0	
2	1ST STAGE CEMENT	POZ PREMIUM PLUS 50/50 - SBM (14239)	180.0	sacks	13.5	1.66	8.06		8.06
	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)							
	8.063 Gal	FRESH WATER							
	0.1 %	WG-17, 50 LB SK (100003623)							

Stage/Plug #: 2									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	2ND STAGE CEMENT	POZ PREMIUM PLUS 50/50 - SBM (14239)	130.0	sacks	13.5	1.66	8.06		8.06
	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)							
	8.063 Gal	FRESH WATER							
	0.1 %	WG-17, 50 LB SK (100003623)							
2	PLUG RAT AND MOUSE HOLES	POZ PREMIUM PLUS 50/50 - SBM (14239)	25.0	sacks	13.5	1.66	8.06		8.06
	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)							
	8.063 Gal	FRESH WATER							
	0.1 %	WG-17, 50 LB SK (100003623)							

Calculated Values		Pressures		Volumes					
Displacement	229	Shut In: Instant		Lost Returns	0	Cement Slurry	99	Pad	
Top Of Cement	1745'	5 Min		Cement Returns	0	Actual Displacement	229	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	348

Rates									
Circulating	5	Mixing	6	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	43 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

*Larry Taylor*

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CONSERVATION DIVISION  
WICHITA, KS



**HALLIBURTON**

FEB 26 2008

CONSERVATION DIVISION  
WICHITA, KS

**Cementing Job Log**

*The Road to Excellence Starts with Safety*

Sold To #: 348223	Ship To #: 2625165	Quote #:	Sales Order #: 5633458
Customer: EOG RESOURCES INC EBUSINESS		Customer Rep: Taylor, Larry	
Well Name: Savage Heirs		Well #: 1#1	API/UWI #:
Field:	City (SAP): UNKNOWN	County/Parish: Stevens	State: Kansas
Legal Description:			
Lat:		Long:	
Contractor: ABERCROMBIE		Rig/Platform Name/Num: 2	
Job Purpose: Cement Multiple Stages			Ticket Amount:
Well Type: Development Well		Job Type: Cement Multiple Stages	
Sales Person: BLAKEY, JOSEPH		Srvc Supervisor: COBLE, RANDALL	MBU ID Emp #: 347700

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/21/2008 22:00							
Depart from Service Center or Other Site	01/22/2008 00:00							JOURNEY MANEGMENT BEFORE DEPARTURE
Arrive at Location from Service Center	01/22/2008 00:30							ASSES LOCATION - SPOT TRUCKS
Pre-Rig Up Safety Meeting	01/22/2008 00:45							
Rig-Up Equipment	01/22/2008 01:00							
Casing on Bottom	01/22/2008 09:30							RIG UP PLUG CONTAINER AND CIRC. W/ RIG
Circulate Well	01/22/2008 10:00							CIRC. W/RIG FOR 2 HOURS
Pre-Job Safety Meeting	01/22/2008 11:45							
Start Job	01/22/2008 12:00							
Test Lines	01/22/2008 12:01							2500 PSI
Pump Spacer 1	01/22/2008 12:05		4	20	20		100.0	MUD FLUSH
Pump Cement	01/22/2008 12:11		5	53	53		150.0	180 SKS 50/50 POZ @ 13.5#
Drop Plug	01/22/2008 12:23							
Clean Lines	01/22/2008 12:24							TO DITCH
Pump Displacement	01/22/2008 12:28		6	140			100.0	70 BBLs FRESH WATER - 80 BBLs MUD
Other	01/22/2008 12:54		2	10	150		350.0	SLOWED RATE

# HALLIBURTON

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Comment	01/22/2008 13:00							FINAL LIFT 350 PSI - PLUG LANDED AND PRESSURE CAME UP TO 500 PSI AND THEN DROPPED BACK TO 350 - STOPPED PUMPING PER COMAPNY MANS ORDERS
Check Floats	01/22/2008 13:05							FLOATS HELD
Drop Plug	01/22/2008 13:10							MSC OPENING PLUG
Open MSC	01/22/2008 13:37						750.0	
Circulate Well	01/22/2008 13:38							W/ PUMP TRUCK TO INSURE MSC WAS OPEN
Start Job	01/22/2008 17:49							
Test Lines	01/22/2008 17:50							2500 PSI
Pump Cement	01/22/2008 17:51		2	5			40.0	15 SKS 50/50 POZ @ 13.5# FOR RAT HOLE
Pump Cement	01/22/2008 18:00		2	3	8		40.0	10 SKS 50/50 POZ @ 13.5 FOR MOUSE HOLE
Pump Cement	01/22/2008 18:09		5	38	38		125.0	130 SKS 50/50 POZ @ 13.5#
Drop Plug	01/22/2008 18:17							MSC CLOSING PLUG
Pump Displacement	01/22/2008 18:18		5	69			100.0	FRESH WATER
Other	01/22/2008 18:34		2	10	79		500.0	SLOWED RATE
Close MSC	01/22/2008 18:39		2				500.0	PRESSURED UP TO 2300 PSI
End Job	01/22/2008 18:41				348			
Pre-Rig Down Safety Meeting	01/22/2008 18:45							
Rig-Down Equipment	01/22/2008 18:50							

RECEIVED  
KANSAS CORPORATION COMMISSION

FEB 26 2008

CONSERVATION DIVISION  
WICHITA, KS

Sold To #: 348223

Ship To #: 2625165

Quote #:

Sales Order #: 5633458

SUMMIT Version: 7.20.130

Tuesday, January 22, 2008 07:37:00

GAS TESTING & MEASUREMENT  
 PETROLEUM LABORATORY  
 PHYSICAL TEST  
 GAS SURVEYS

GAS PRODUCTION SURVEYS  
 BACK PRESSURE TESTS  
 ELECTRONIC VOLUMES  
 CHART INTEGRATION

# Thurmond-McGlothlin Inc.

NAUTRAL GAS MEASUREMENT

P.O. Box 885  
 Liberal, Ks 67901  
 620-626-4218  
[tmclbl@swko.net](mailto:tmclbl@swko.net)

**CONFIDENTIAL**

**FEB 22 2008**

**KCC**

**FRACTIONAL ANALYSIS \*  
 COMPONENTS MOL %**

COMPONENTS	MOL %	GPM
Carbon Dioxide	0.364	
Nitrogen	6.717	
Methane	81.460	13.73
Ethane	4.651	1.24
Propane	4.164	1.14
iso-Butane	0.462	0.15
n-Butane	1.143	0.36
iso-Pentane	0.232	0.08
n-Pentane	0.256	0.09
Hexane +	0.316	0.14
Helium	0.235	0.00
	100	

DATE RUN:

FEB.12,2008

COMPANY:

EOG RESOURCES

PURCHASER:

Savage Heirs 1#1

LEASE:

METER CODE:

FIELD PRESS:

150

LAB PRESS:

FLOW TEMP:

FIELD H2O:

FIELD H2S:

FIELD OXYGEN:

FIELD CO2:

CYLINDER NO:

I-157

SAMPLED BY:

tg

DATE SAMPLE:

02/12/08

DATE RECVD:

FORMATION:

**GASOLINE CONTENT @ 14.65 PSIA & 60 F**

	GPM
PROPANE & HEAVIER	1.96
BUTANE & HEAVIER	0.82
PENTANE & HEAVIER	0.31

REMARKS:

COMPARISON SAMPLE  
 SAMPLE TAKEN FOR 4 POINT TES

**Gross Heating Value  
 BTU @ 14.65 PSIA & 68 F**

Dry	1094.9	
Wet	1075.9	4.00

RESULTS TO:  
 OKLA TEAM

RECEIVED  
 KANSAS CORPORATION COMMISSION

**FEB 26 2008**

CONSERVATION DIVISION  
 WICHITA, KS

**SPECIFIC GRAVITY**

0.6884

Natural gas is one of our Most Valuable and Profitable Properties. Careful  
 Conservation and Expert Handling will pay Abundant Dividends.

\*Based on GPA 2145 & 2172

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date:  
2-12-2008

API No. 15  
189-22631-0000

Company EOG Resources, Inc.		Lease Savage Heirs		Well Number 1 #1	
County Stevens	Location E/2 SW	Section 1	TWP 33S	RNG (E/W) 38W	Acres Attributed
Field Morrow		Reservoir		Gas Gathering Connection Anadarko Petroleum Co.	
Completion Date 2-22-08		Plug Back Total Depth 6439		Packer Set at	
Casing Size - 5-1/2	Weight 17# & 15.5#	Internal Diameter 1.995	Set at 6480	Perforations 5671'	To 5675'
Tubing Size 2 3/8	Weight 4.7#	Internal Diameter 1.995	Set at	Perforations	To
Type Completion (Describe) Single		Type Fluid Production		Pump Unit or Traveling Plunger? Yes / No No	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide 0.364		% Nitrogen 6.717	
Vertical Depth(H) 5673'		Pressure Taps Flange		(Meter Run) (Prover) Size 4.026	
Pressure Buildup: Shut in 2-8 20 08 at 10 (AM) (PM)		Taken 2-12 20 08 at 10 (AM) (PM)			
Well on Line: Started 2-15 20 08 at 10 (AM) (PM)		Taken 2-16 20 08 at 10 (AM) (PM)			

### OBSERVED SURFACE DATA

Duration of Shut-in 96 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In					74	1436	1450.4	1436	1450.4	96	
Flow	1.750	289.9	89	84	74	1330	1344.4	1273	1287.4	24	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>p</sub> ) (F <sub>a</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
15.1	304.3	164.57	1.1809	.9732	1.030	2,942		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 2103.7 ; (P<sub>w</sub>)<sup>2</sup> = 1807.4 ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>a</sub>)<sup>2</sup> = 0.207 ; (P<sub>o</sub>)<sup>2</sup> = .207

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>o</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>o</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
2103.5	296.2	7.1016	.8513562	.868	.738977	5.4825	20,892

Open Flow **20,892** Mcfd @ 14.65 psia      Deliverability      Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is a true and correct. Executed this the 19 day of FEBRUARY, 20 08.

**RECEIVED**  
KANSAS CORPORATION COMMISSION

*[Signature]*  
THURMOND-MCGLOTHLIN, INC  
For Company

Witness (if any) **FEB 26 2008**

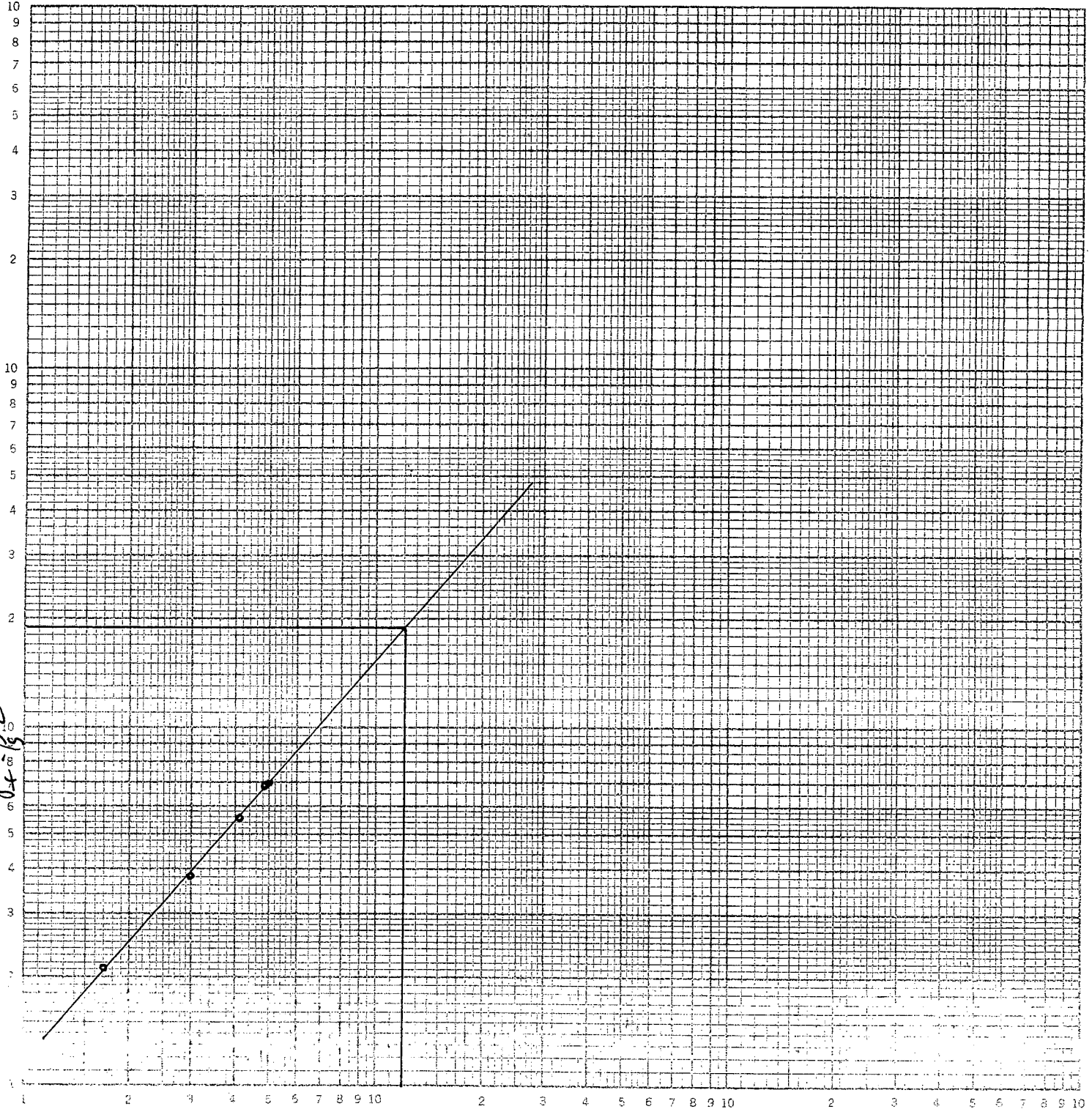
For Commission **CONSERVATION DIVISION  
WICHITA, KS**

Checked by

OPERATOR: EOG RESOURCES, INC  
 LEASE: SAVAGE HEIRS  
 WELL NO.: 1 # 1  
 DATE: 02/12/08

46 7402

KEUFFEL & ESSER CO. MADE IN U.S.A.  
 LOGARITHMIC 3 X 3 CYCLES  
 0.2 0.5 1 2 5 10



AOF - 12,000 MCF/D

Q → MCF/D

σ - 49.0  
 n - 868

RECEIVED  
 KANSAS CORPORATION COMMISSION

FEB 26 2008

CONSERVATION DIVISION  
 WICHITA, KS

STATE OF KANSAS - CORPORATION COMMISSION  
MULTIPOINT BACK PRESSURE TEST

FORM CG-1 Rev.

TYPE TEST:  Initial  Annual  Special TEST DATE: 02/12/08

COMPANY: EOG RESOURCES, INC. LEASE: SAVAGE HEIRS WELL NO: 1 #1

COUNTY: STEVENS LOCATION: E/2 SW SECTION: 1 TWP: 33S RNG (E/W): 38W ACRES:

API WELL NUMBER: 15-189-22631-0000 RESERVOIR: MORROW PIPELINE CONNECTION: ANADARKO PETROLEUM CO.

COMPLETION DATE: 2-22-08 PLUG BACK TOTAL DEPTH: 6439 PACKER SET AT: N/A

CAISING SIZE: 5-1/2 WT: 17# 8-15 5# ID: SET AT: 6480 PERF: 5671' TO: 5675'

TUBING SIZE: 2-3/8 WT: 4.7# ID: 1.995 SET AT: 5653 PERF: TO: 5653

TYPE COMPLETION (Describe): SINGLE TYPE FLUID PRODUCTION:

PRODUCING THRU TUBING RESERVOIR TEMPERATURE °F BAR PRESS - P<sub>s</sub>: 14.4 Psia

GAS GRAVITY - G<sub>s</sub>: % CARBON DIOXIDE: 0.364 % NITROGEN: 6.717 API GRAVITY OF LIQUID: .6884

VERTICAL DEPTH (H): 5673 TYPE METER CONNECTION: (METER RUN) (PROVER) SIZE: 4.026

REMARKS:

OBSERVED DATA DURATION OF SHUT-IN 96 HR.

RATE NO.	ORIFICE SIZE in	(METER) (PROVER) PRESSURE Psig	DIFF. (h <sub>w</sub> ) (h <sub>d</sub> )	FLOWING TEMP t	WELL-HEAD TEMP. t	CSG WELLHEAD PRESS. Psig (P <sub>w</sub> )(P <sub>1</sub> )(P <sub>2</sub> ) Psia		TBG WELLHEAD PRESS. Psig (P <sub>w</sub> )(P <sub>1</sub> )(P <sub>2</sub> ) Psia		FLOW DURATION (HOURS)	LIQUID PROD. Bbls.
						Psig	Psia	Psig	Psia		
SHUT IN					74	1436	1450.4	1436.3	1450.4	96	
1	2.000	120	38	60	74	1360	1374.4	1320	1334.4	1	
2	2.875	125	19	60	74	1297	1311.4	1206	1220.4	1	
3	2.875	135	34	60	74	1231	1245.4	1060	1074.4	1	
4	2.875	160	40	60	74	1173	1187.4	905	919.4	1	
5											

RATE OF FLOW CALCULATIONS

RATE NO.	COEFFICIENT (F <sub>1</sub> ) (F <sub>2</sub> ) Mcfd	(METER) (PROVER) PRESSURE Psia	PRESS EXTENSION $\sqrt{P_w \cdot h_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW Q Mcfd	GOR (ft <sup>3</sup> /Bbl)	G <sub>m</sub>
1	20.32	134.4	71.46	1.2053	1.000	1.012	1771		
2	47.19	139.4	51.46	1.2053	1.000	1.013	2965		
3	47.19	149.4	71.27	1.2053	1.000	1.014	4110		
4	47.19	174.4	83.52	1.2053	1.000	1.017	4831		
5									

PRESSURE CALCULATIONS

RATE NO.	P <sub>i</sub> Psia	P <sub>c</sub> Psia	P <sub>w</sub> Psia	(P <sub>j</sub> ) <sup>2</sup> THOUSANDS	(P <sub>w</sub> ) <sup>2</sup> THOUSANDS	PLOTTING POINTS		% SHUT-IN (P <sub>w</sub> - P <sub>c</sub> ) / (P <sub>c</sub> - P <sub>i</sub> )
						(P <sub>j</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> THOUSANDS	Q Mcfd	
1		1450.4	1374.4	2103.7	1889.0	214.7	1771	94.7
2		1450.4	1311.4	2103.7	1719.8	383.9	2965	90.3
3		1450.4	1245.4	2103.7	1551.0	552.6	4110	85.7
4		1450.4	1187.4	2103.7	1409.9	693.7	4831	81.7
5								

INDICATED WELLHEAD OPEN FLOW 12,000 Mcfd @ 14.65 Psia "n" = .868

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein, and that said report is true and correct. Executed this the 19 day of FEBRUARY 2008

Witness (if any) \_\_\_\_\_

For Commission \_\_\_\_\_

RECEIVED KANSAS CORPORATION COMMISSION

FEB 26 2008

THURMOND-MCGLOTHLIN, INC For Company

Checked By \_\_\_\_\_ (Rev.10/96)

CONSERVATION DIVISION WICHITA, KS

GAS TESTING & MEASUREMENT  
PETROLEUM LABORATORY  
PHYSICAL TEST  
GAS SURVEYS

GAS PRODUCTION SURVEYS  
BACK PRESSURE TESTS  
ELECTRONIC VOLUMES  
CHART INTEGRATION

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**Thurmond-McGlothlin Inc.**

NAUTRAL GAS MEASUREMENT

**FEB 26 2008**

CONSERVATION DIVISION  
WICHITA, KS

P.O. Box 885  
Liberal, Ks 67901  
620-626-4218  
[tmclbl@swko.net](mailto:tmclbl@swko.net)

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Helium	0.235	0.00
	100	

DATE RUN:

FEB.12,2008

COMPANY:

EOG RESOURCES

PURCHASER:

LEASE:

Savage Heirs 1#1

METER CODE:

FIELD PRESS:

150

LAB PRESS:

FLOW TEMP:

FIELD H2O:

FIELD H2S:

FIELD OXYGEN:

FIELD CO2:

CYLINDER NO:

I-157

SAMPLED BY:

tg

DATE SAMPLE:

02/12/08

DATE RECVD:

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Wet	1075.9	4.00

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