



02577548

Page 1

FORM
4
Rev 12/05

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED
FEB 25 2011
COGCC/Rifle Office

1. OGCC Operator Number: 10079	4. Contact Name Hannah Knopping	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Antero Resources Piceance Corporation	Phone: (303) 357-6412	
3. Address: 1625 17th Street City: Denver State: CO Zip: 80202	Fax: (303) 357-7315	
5. API Number 05-045-19098-00	OGCC Facility ID Number	Survey Plat
6. Well/Facility Name: BAT	7. Well/Facility Number 13D-17-07-95	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SESW, Section 17, T7S, R95W, 6th P.M.		Surface Eqpm Diagram
9. County: Garfield	10. Field Name: Parachute	Technical Info Page
11. Federal, Indian or State Lease Number:		Other wellbore diag.

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNL/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement	PDOP Reading
	Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond
Formation	Signed surface use agreement attached
Formation Code	
Spacing order number	
Unit Acreage	
Unit configuration	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	From:
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	To:
	Effective Date:
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for inspection:	MIT required if shut in longer than two years. Date of last MIT
<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
<input checked="" type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	*submit cbl and cement job summaries
Method used	Cementing tool setting/perf depth
See Tech pg.	Cement volume
	Cement top
	Cement bottom
	Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Report of Work Done	
Approximate Start Date:	Date Work Completed: 2/10/2011-2/17/2011	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)		
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input checked="" type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Cement Remediation	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Hannah Knopping
Print Name: Hannah Knopping

Date: 2/25/2011 Email: hknopping@anteroresources.com

Title: Permit Representative

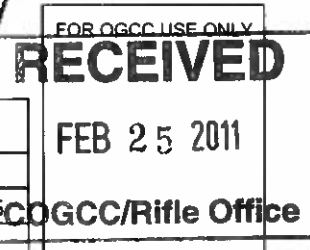
COGCC Approved: Kevin J. King

Title: EIT III

Date: FEB 28 2011

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



1. OGCC Operator Number: 10079 API Number: 05-045-19098-00
2. Name of Operator: Antero Resources Piceance Corp OGCC Facility ID #
3. Well/Facility Name: BAT Well/Facility Number: 13D-17-07-95
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESW, Sec 17, T7S, R95W, 6th P.M.

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

The BAT 13D-17-07-95 wellbore had cement remediation work done to repair marginally leaking collars which were located at approximately 2625'-4000'. The work was verbally approved by Kevin King on 8/13/2010 and approved by David Andrews via Sundry on 9/1/2010.

Summary of Work:

- 1) Cut casing @ 4075' and replace with new 4-1/2" casing and external casing patch (Patch set at 4075'). Did not hold pressure.
- 2) On 2/10/2011, pumped 320 sacks of cement.
- 3) Drilled out cement and pressure tested squeeze to 1500 psi. Held good.
- 4) On 2/16/2011, ran CBL and confirmed new Top of Cement at 2780'.
- 5) On 2/17/2011 cleaned out hole to 6560'.

To isolate the cement squeeze, a retrievable packer will be set at ~4200'. A 3-1/2" flush joining frac string will be latched onto the packer and tied back to surface. The well will be fracture stimulated down the tubing string.

An updated Form 5 Drilling Completion Report has also been filed.

Attachments:

- 1) Current Wellbore Diagram
- 2) Cement Report- Squeeze Job
- 3) Cement Bond Log

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COGCC/Rifle Office**Wellbore Diagram**

(Current 2/18/11)

Elev. GL: 5,562'
KB: 5,586'Spud: 5/06/2010
TD: 5/11/2010
Completion: none yet

Hole Diameter 12-1/4"

8-5/8", 32#, J-55, ST&C
Set @ 2,307' w/ 435 sx
Circulate cmt to surface

Hole Diameter 7-7/8"

Top of Cement at 2,780'

External Casing Patch set @ 4,075'
Pumped 320 sx cement (2-10-11)
Pressure test squeeze to 1500 psi, held good

Top of Gas at 4,594'

Cleaned out to 6,560' (2-17-11)
CIBP set @ 6,560' (6-28-10)
CBL tagged @ 6,585' (5-22-10)

TD 6,662' (driller's depth)

4-1/2", 11.6#, N-80, LT&C
Cement w/ 656 sx
Float @ 6,600' (driller's depth)
Shoe @ 6,646' (driller's depth)**Antero Resources Corporation****BAT 13D-17-07-95**

API: 05045190980000

MJK, 2/18/11

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COGCC/Rifle Office

**ANTERO RESOURCES
1625 17TH STREET THIRD FLOOR
DENVER, Colorado**

BAT
BAT 13D-17-07-95

WORKOVER/WORK OVER

Post Job Summary Recement Service

Prepared for:
Date Prepared:
Version: 1

Service Supervisor: ROSS, CHARLES

Submitted by:

HALLIBURTON

HALLIBURTON

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Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 337854		Ship To #: 2783097		Quote #:		Sales Order #: 7958953	
Customer: ANTERO RESOURCES				Customer Rep: Poole, Keith			
Well Name: BAT			Well #: 13D-17-07-95			API/UWI #: 05-045-19098	
Field: PARACHUTE		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.433 deg. OR N 39 deg. 25 min. 59.146 secs.				Long: W 108.025 deg. OR W -109 deg. 58 min. 29.107 secs.			
Contractor: WORKOVER			Rig/Platform Name/Num: WORK OVER				
Job Purpose: Recement Service						Ticket Amount:	
Well Type: Development Well			Job Type: Recement Service				
Sales Person: METLI, MARSHALL			Srvc Supervisor: ROSS, CHARLES			MBU ID Emp #: 453128	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	02/10/2011 05:20							WITH ALL HES EE'S
Depart from Service Center or Other Site	02/10/2011 05:30							
Arrive at Location from Service Center	02/10/2011 07:00							
Assessment Of Location Safety Meeting	02/10/2011 07:50							WITH ALL HES EE'S
Pre-Rig Up Safety Meeting	02/10/2011 08:30							WITH ALL HES EE'S
Rig-Up Equipment	02/10/2011 08:40							1-F550 PICKUP, 1-ELITE PUMP TRUCK, 1-660 CEMENT BULK TRUCKS, 1-SUPER FLUSH TRANSPORT, 1-HARD LINE TO RIG AND WASH UP OUT TO THE PIT FROM AND BACKSIDE FROM SQUEEZE MANIFOLD.
Pre-Job Safety Meeting	02/10/2011 11:20							WITH ALL HES EE'S AND RIG CREW
Start Job	02/10/2011 11:34							TD TO PLUG 4113, TP TUBE4020, RETAINER @ 4020, CASING PATCH @ 4070, MW# 8.4, SURFACE CASING 8.625 SET @ 2000, PRODUCTION CASING 4.5 11.6# N-80
Pump Water	02/10/2011 11:35		2	2				FILL LINES, FRESH WATER
Test Lines	02/10/2011 11:38							TEST TO 6000 PSI
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Sold To #: 337854

Ship To #: 2783097

Quote #:

Sales Order #:

7958953

SUMMIT Version: 7.20.130

Saturday, February 19, 2011 02:04:00

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*Cementing Job Log***COGCC/Rifle Office**

Load Backside	02/10/2011 11:41							Load Backside Pressure to 500 for test and then release back to 350 psi
Injection Test	02/10/2011 11:46		3	20			1940.0	SLOWED RATE ONCE SO RIG HANDS COULD OPEN THE VALVE ON THE TANK FOR THE WELL FLUID.
Pump Spacer 1	02/10/2011 11:55		3	20			1490.0	SUPER FLUSH
Pump Spacer 2	02/10/2011 12:03		3	10			1708.0	FRESH WATER
Pump Tail Cement	02/10/2011 12:06		3	85.5			2460.0	320 SKS OF VERSACEM PUMPED @ 138 PPG, YIELD 1.5, WATER 7.25
Pump Displacement	02/10/2011 12:39		3	14.6			1524.0	FRESH WATER
Clean Lines	02/10/2011 12:48							
Reverse Circ Well	02/10/2011 12:51		3	30			800.0	
Shutdown	02/10/2011 13:11						800.0	
End Job	02/10/2011 13:11							GOOD RETURNS THROUGHOUT JOB UNTIL ALMOST 60 BB;L INTO THE CEMENT, NO MOVEMENT OF PIPE THROUGHOUT JOB, 1BBL OF CEMENT CIRCULATED TO THE PIT. 310 SKS OF CEMENT PLACED THROUGH THE CASING PATCH.
Post-Job Safety Meeting (Pre Rig-Down)	02/10/2011 13:25							
Rig-Down Equipment	02/10/2011 13:35							
Pre-Convoy Safety Meeting	02/10/2011 14:35							
Depart Location for Service Center or Other Site	02/10/2011 14:45							THANKS FOR USING GRAND JUNCTION HALLIBURTON CEMENT DEPARTMENT, CHUCK ROSS AND CREW

Sold To # : 337854

Ship To # :2783097

Quote # :

Sales Order # :

7958953

SUMMIT Version: 7.20.130

Saturday, February 19, 2011 02:04:00

HALLIBURTON

Cementing Job Summary

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FEB 23 2011

COGCC/Rifle Office

The Road to Excellence Starts with Safety

Sold To #: 337854	Ship To #: 2783097	Quote #:	Sales Order #: 7958953
Customer: ANTERO RESOURCES		Customer Rep: Poole, Keith	
Well Name: BAT	Well #: 13D-17-07-95	API/UWI #: 05-045-19098	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.433 deg. OR N 39 deg. 25 min. 59.146 secs.		Long: W 108.025 deg. OR W -109 deg. 58 min. 29.107 secs.	
Contractor: WORKOVER		Rig/Platform Name/Num: WORK OVER	
Job Purpose: Recement Service			
Well Type: Development Well		Job Type: Recement Service	
Sales Person: METLI, MARSHALL		Srv Supervisor: ROSS, CHARLES	MBU ID Emp #: 453128

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HONE, AARON D		381285	KUKUS, CHRISTOPHER A		413952	NICKLE, RYON		454759
REEVES, BRANDON W		287883	ROSS, CHARLES Raymond		453128	WINKER, STEVEN		478776

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10297346	100 mile	10744648C	100 mile	10804467	100 mile	10829463	100 mile
10998508	100 mile	11071559	100 mile	11164591	100 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	10 - Feb - 2011	07:00	MST
Form Type		BHST	Job Started	10 - Feb - 2011	11:34	MST
Job depth MD	4080. ft	Job Depth TVD	Job Completed	10 - Feb - 2011	13:11	MST
Water Depth		Wk Ht Above Floor	Departed Loc	10 - Feb - 2011	14:45	MST
Perforation Depth (MD)	From	To				

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
7.875 OPEN HOLE				7.875				2000.	4113.	2000.	4113.
4.5 PRODUCTION CASING	New		4.5	4.	11.6		N-80	.	4113.	.	4113.
8.625 SURFACE CASING	Unknown		8.625	8.017			N-80	.	2000.	.	2000.
2.375 TUBING	Unknown		2.375	1.995	4.7			.	4020.	.	4020.

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			

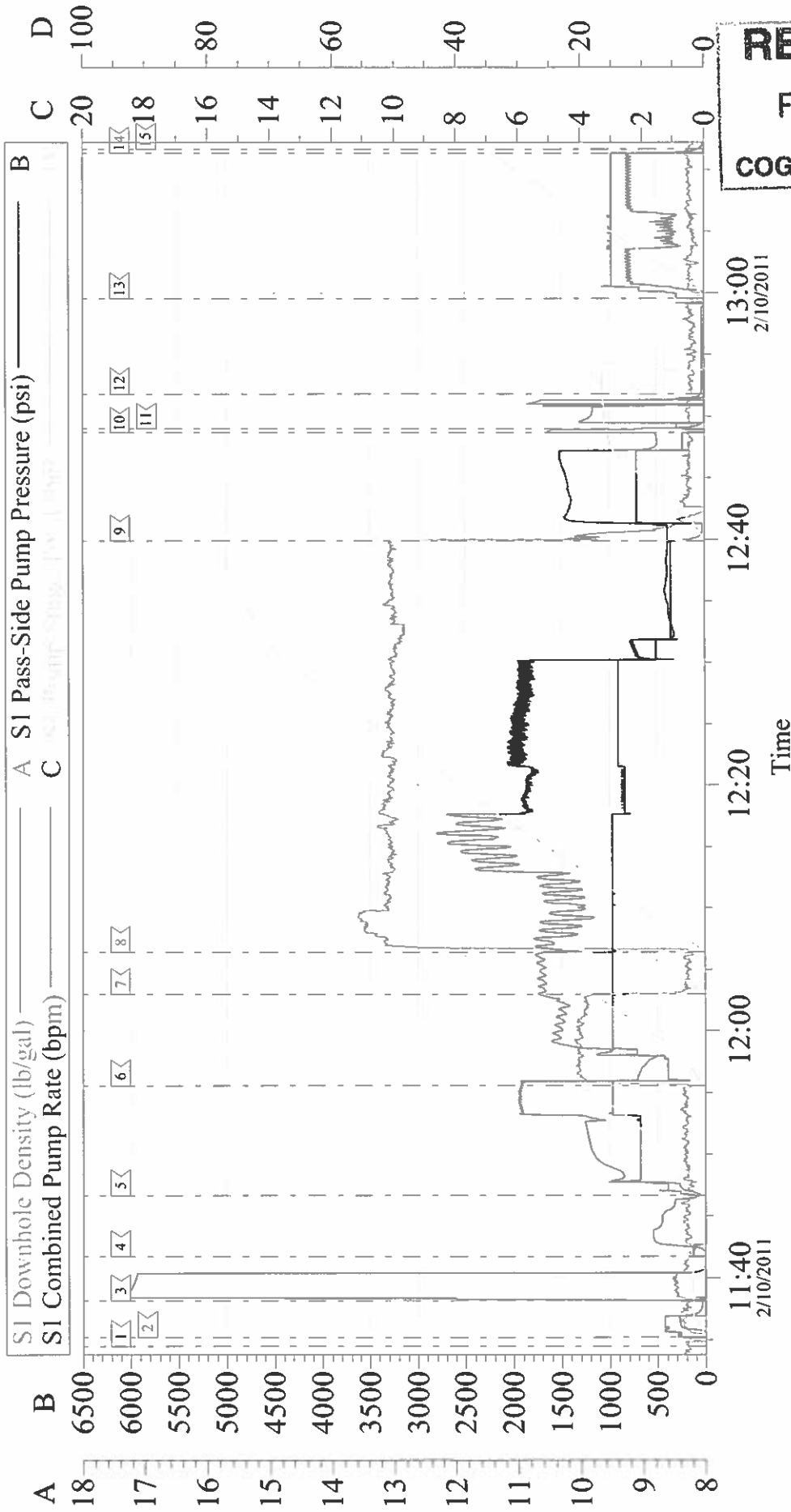
Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
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HALLIBURTON**Cementing Job Summary****RECEIVED****COGCC/Rifle Office**

Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty			
Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Injection Test		20.00	bbl	8.4	.0	.0	.0	
2	SUPER FLUSH 101	SUPER FLUSH 101 - SBM (12199)	20.00	bbl	10.	.0	.0	.0	
3	Fresh Water Spacer		10.00	bbl	.	.0	.0	.0	
4	13.0 ppg Squeeze Cement	VERSACEM (TM) SYSTEM (452010)	320.0	sacks	13.	1.5	7.25		7.25
7.25 Gal		FRESH WATER							
5	Displacement		14.00	bbl	8.4	.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	0 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					

Antero Re-Cement



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FEB 25 2011
COGCC/Rifle Office

OptiCem v6.3.4
10-Feb-11 13:51

Customer: Antero	Job Date: 10-Feb-2011	Sales Order #: 7958953
Well Description: Bat 13D-17-07-95	Job Type: Re-cement	ADC Used: Yes
Company Rep: Keith Poole	Cement Supervisor: Chuck Ross	Elite # / Operator: 6/ Chris Kukus