



FORM 4 Rev 12/05

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State of Colorado Oil and Gas Conservation Commission

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



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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 803b.)

1. OGCC Operator Number: 10079 4. Contact Name: Hannah Knopping 2. Name of Operator: Antero Resources Piceance Corporation 3. Address: 1625 17th Street, Suite 300 City: Denver State: CO Zip: 80202 4. Contact Name: Hannah Knopping Phone: (303) 357-6412 Fax: (303) 357-7315 5. API Number 05-045-18329-00 OGCC Facility ID Number 6. Well/Facility Name: O'Toole 7. Well/Facility Number: A5 8. Location (Qtr/Sec, Twp, Rng, Meridian): SESE, Section 16, T6S, R92W, 6th P.M. 9. County: Garfield 10. Field Name: Mamm Creek 11. Federal, Indian or State Lease Number: Survey Plat Directional Survey Surface Eqpmnt Diagram Technical Info Page Other

General Notice

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: Change of Surface Footage to Exterior Section Lines: Change of Bottomhole Footage from Exterior Section Lines: Change of Bottomhole Footage to Exterior Section Lines: Bottomhole location Qtr/Sec, Twp, Rng, Mer: Latitude Distance to nearest property line Distance to nearest bldg, public rd, utility or RR Longitude Distance to nearest lease line Is location in a High Density Area (rule 803b)? Yes/No Ground Elevation Distance to nearest well same formation Surface owner consultation date: GPS DATA: Date of Measurement PDOP Reading Instrument Operator's Name CHANGE SPACING UNIT Formation Formation Code Spacing order number Unit Acreage Unit configuration Remove from surface bond Signed surface use agreement attached CHANGE OF OPERATOR (prior to drilling): Effective Date: Plugging Bond: Blanket Individual CHANGE WELL NAME NUMBER From: To: Effective Date: ABANDONED LOCATION: Was location ever built? Yes No Is site ready for inspection? Yes No Date Ready for inspection: NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: Has Production Equipment been removed from site? Yes No MIT required if shut in longer than two years. Date of last MIT SPUD DATE: REQUEST FOR CONFIDENTIAL STATUS (8 mos from date casing set) SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK Method used Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004. Final reclamation will commence on approximately Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

Notice of Intent Report of Work Done Approximate Start Date: 11/17/2011 Date Work Completed: Details of work must be described in full on Technical Information Page (Page 2 must be submitted.) Intent to Recomplete (submit form 2) Request to Vent or Flare E&P Waste Disposal Change Drilling Plans Repair Well Beneficial Reuse of E&P Waste Gross Interval Changed? Rule 502 variance requested Status Update/Change of Remediation Plans Casing/Cementing Program Change Other: Request to Complete 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 Date: 10/26/2011 Email: hknopping@anteroresources.com Print Name: Hannah Knopping Title: Permit Representative

COGCC Approved: Kevin Kij Title: EIT III Date: NOV 02 2011

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



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1. OGCC Operator Number: 10079 API Number: 05-045-18329-00  
 2. Name of Operator: Antero Resources Piceance Corp. OGCC Facility ID # \_\_\_\_\_  
 3. Well/Facility Name: O'Toole Well/Facility Number: A5  
 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE, Section 16, T6S, R92W, 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 Otoole A5 has been successfully cemented according to the approved plan and a summary of the braden head monitoring is listed below. One thousand and forty (1,040) sacks of cement were used to cover the Top of Gas as per Colorado Oil and Gas Conservation Commission rules. Appropriate industry practices and procedures were utilized on the Otoole A5 cementing program. The cement bond log indicates good zonal isolation and coverage from TD to 2,200'. I, Jonathon Black, certify that all the information contained within this Sundry is true and correct.

Date Cemented: 10/11/2011  
Plug Bumped: 10/11/2011

WOC Time: 6 hrs  
Temp Log Run: Yes 10/12/2011 05:00 AM

Mandrel set @ 10/11/2011 21:00hrs

Braden Head Pressures:

6 hours:	0 psig	03:00 AM 10/12/2011
12 hours:	0 psig	09:00 AM 10/12/2011
24 hours:	0 psig	21:00 PM 10/12/2011
48 hours:	0 psig	21:00 PM 10/13/2011
72 hours:	0 psig	21:00 PM 10/14/2011
96 hours:	0 psig	21:00 PM 10/15/2011
120 hours:	0 psig	21:00 PM 10/16/2011
144 hours:	0 psig	21:00 PM 10/17/2011
168 hours:	0 psig	21:00 PM 10/18/2011

TOC 2220'  
KK

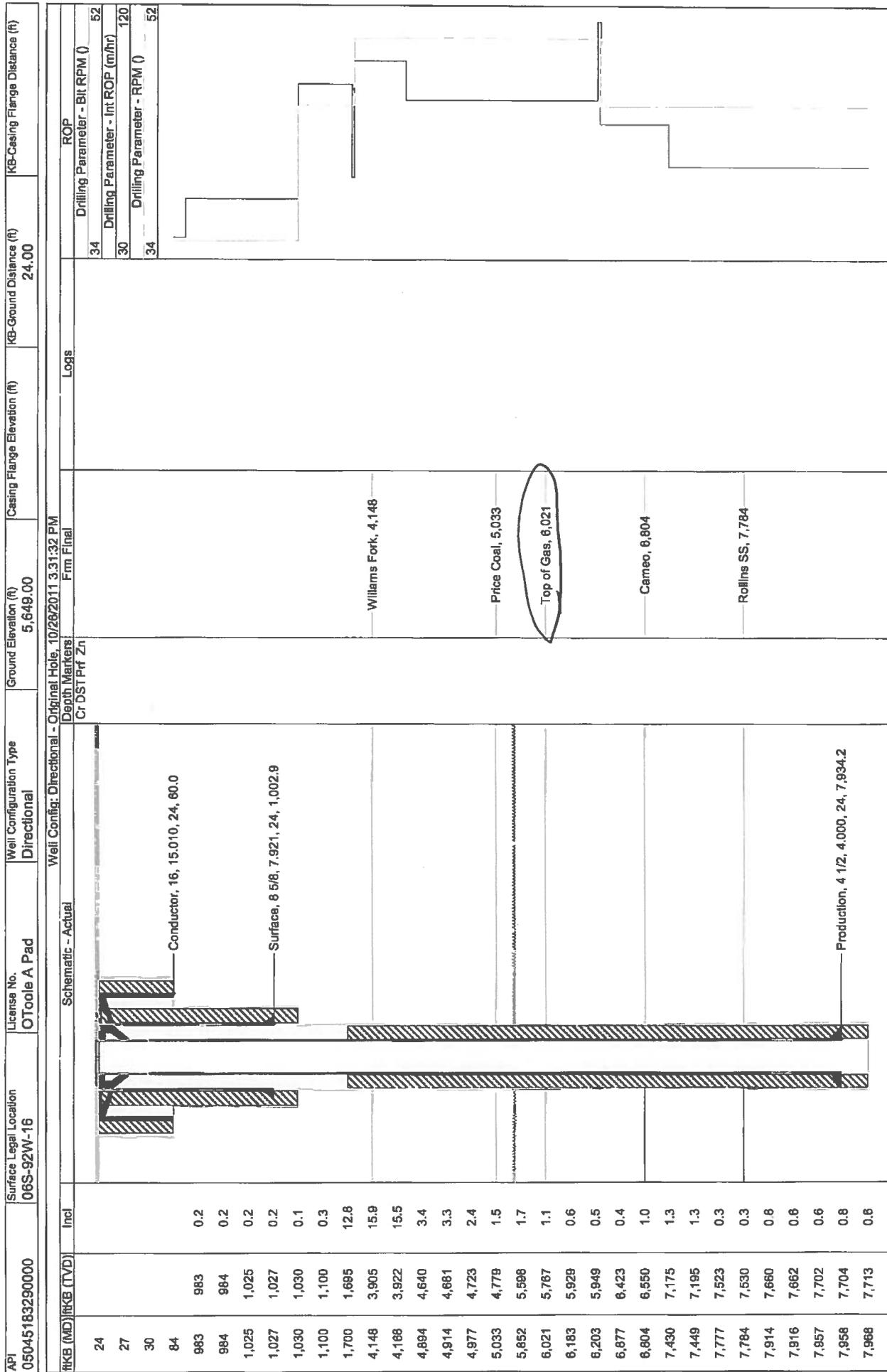
NOTE: Antero received approval from COGCC Engineer, Kevin King, on 10/14/2011, to defer running the CBL on the subject well, per Mamm Creek Notice to Operators policy.

ATTACHMENTS:

- 1) Cement Bond Log
- 2) 1-Page Temperature Survey
- 3) Wellbore Schematic

# Geological Schematic

**Well Name: OToole A5**



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# TEMPERATURE LOG

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Company: ANTERO RESOURCES CORP.  
 Well: O'TOOLE A5  
 Field: MAMM CREEK  
 County: GARFIELD State: COLORADO

Location: API #: 05-045-18329-0000 Other Services: NONE

Permanent Datum: SURFACE Elevation: 5652'  
 Log Measured From: KELLY BUSHING = 24'  
 Drilling Measured From: KELLY BUSHING

Date: 12 OCT 2011  
 Run Number: ONE  
 Depth Driller: 7968'  
 Depth Logger: 7640'  
 Bottom Logged Interval: 7640'  
 Top Log Interval: SURFACE  
 Open Hole Size: 7.875"  
 Type Fluid: WATER  
 Density / Viscosity: ~8.33#  
 Max. Recorded Temp.: 187.5 f  
 Estimated Cement Top: 2150'  
 Time Well Ready: N/A  
 Time Logger on Bottom: N/A  
 Equipment Number: FLD0602W  
 Location: GRAND JUNCTION  
 Recorded By: J. ARSTEN  
 Witnessed By: J. CANADY

Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record				Size	Wt/Ft	Top	Bottom
Surface String				8.625"	32#	SURFACE	1000'
Prot. String							
Production String				4.5"	11.6#	SURFACE	7956'
Liner							

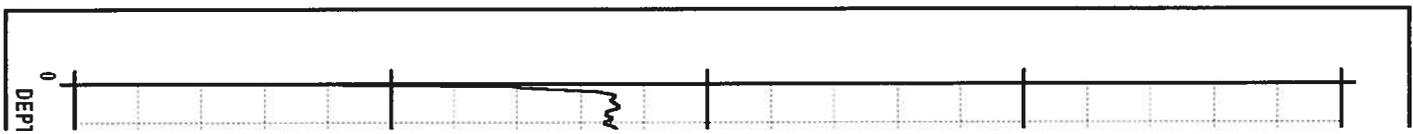
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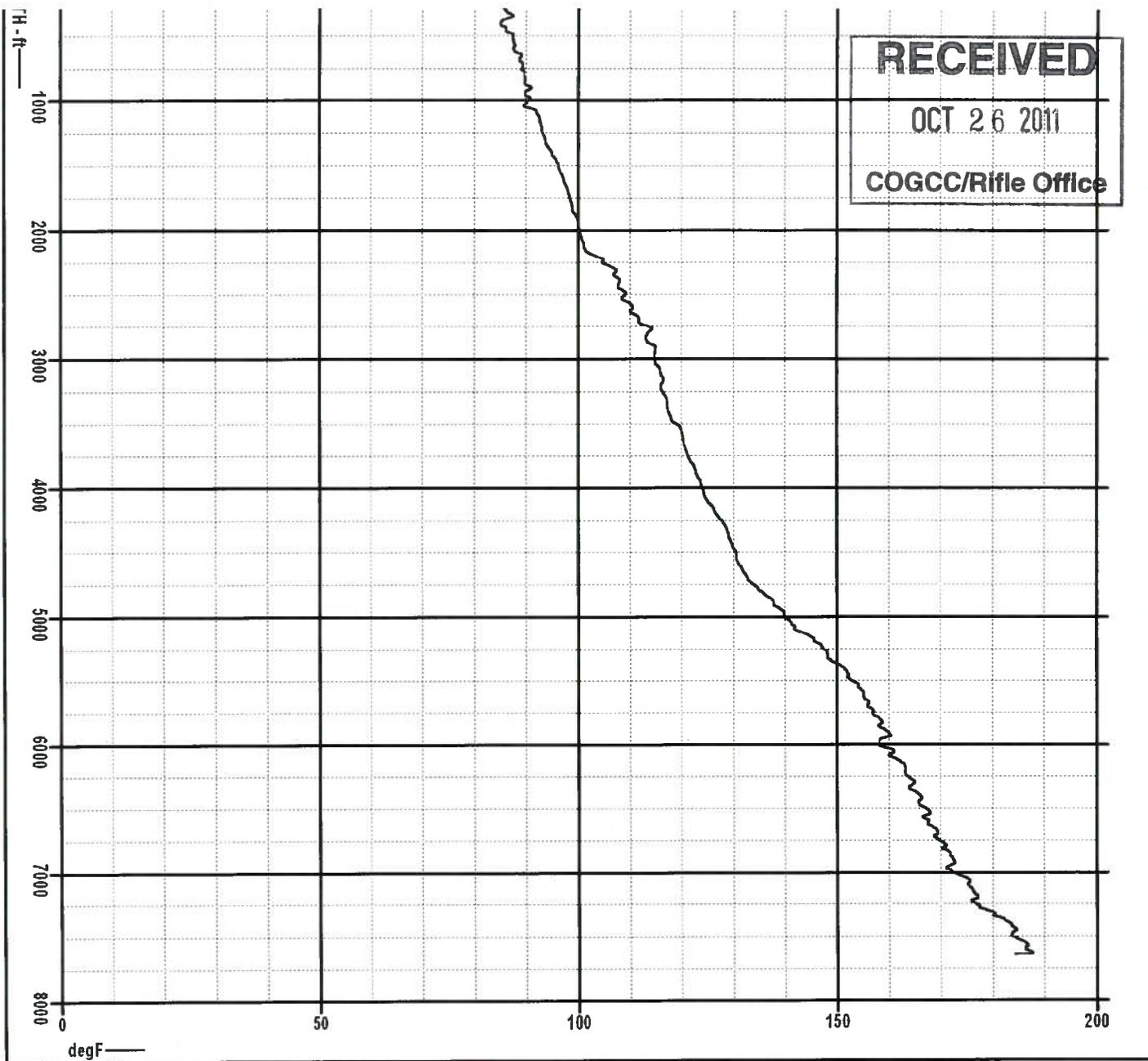
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

LOG WAS RUN APPROXIMATLY 12 HOURS AFTER CEMENT JOB

WE APPRECIATE YOUR BUSINESS, MESA WIRELINE LLC, GRAND JUNCTION CO. (970) 257-0458





5" = 100'

Database File: otoolea5\_temp.db  
 Dataset Pathname: pass1  
 Presentation Format: temp  
 Dataset Creation: Wed Oct 12 01:07:28 2011 by Log Std Casedhole 08121  
 Charted by: Depth in Feet scaled 1:240

-5	CCL	5	55	TEMP (degF)	220
			-1	DTMP (degF)	1
			TEMP (degF)		
			55.0		