

# Environmental, Audit & Assessment, Inc.

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08 November 2010

Colorado Oil and Gas Conservation Commission  
Chris Canfield  
Environmental Protection Specialist  
707 Wapiti Court, Suite 204  
Rifle, CO 81650

RE: Form 4 – Arco Deep 1-27 Production Pit

Mr. Canfield:

Please find the attached Sundry Form 4, submitted on behalf of Williams Production RMT Company, requesting that background arsenic concentrations be taken into consideration for the completion of the production pit closure (Remediation #5109, Spill Tracking Number 2521200) at the Arco Deep 1-27 (NWSE, Sec 27, T6S, R97W; API 05-045-06510) well pad. This request is in accordance with and pertaining to footnote 1 to the Table 910-1 of the COGCC 900-series Rule.

Thank you in advance for your time in reviewing the attached document and consideration of approval for the request. If you have any specific questions, would like additional information, or would otherwise like to discuss the matter further, please contact myself or Jason Rauen at 970-623-8993, at your convenience.

Sincerely,

Jana Sanders  
Environmental Scientist  
Environmental, Audit & Assessment, Inc

State of Colorado  
Oil and Gas Conservation Commission

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



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.)

1. OGCC Operator Number: 96850	4. Contact Name: Jason Rauen	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Williams Production R.M.T. Company	Phone: 970-285-9377	
3. Address: 1058 County Road 215 City: Parachute State: CO Zip: 81635	Fax: 970-263-5313	
5. API Number 05-045-06510	OGCC Facility ID Number	
6. Well/Facility Name: Arco Deep 1-27	7. Well/Facility Number 1-27	Survey Plat
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSE, 27, T6S, R97W, 6 PM	10. Field Name: Grand Valley	Directional Survey
9. County: Garfield	11. Federal, Indian or State Lease Number: Remediation #5109, Spill Tracking #2521200	Surface Eqpm Diagram
		Technical Info Page
		Other

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"/> FNU/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <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 type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
*submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth
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 type="checkbox"/> Report of Work Done
Approximate Start Date:	Date Work Completed:
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"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Background
	<input type="checkbox"/> E&P Waste Disposal
	<input type="checkbox"/> Beneficial Reuse of E&P Waste
	<input type="checkbox"/> Status Update/Change of Remediation Plans
	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: \_\_\_\_\_ Date: \_\_\_\_\_ Email: \_\_\_\_\_  
Print Name: \_\_\_\_\_ Title: \_\_\_\_\_

COGCC Approved: *[Signature]* Title: *for Chris Camfield* Date: *Nov 11, 2010*  
CONDITIONS OF APPROVAL, IF ANY: *EPS NW Region*

**TECHNICAL INFORMATION PAGE**



FOR OGCC USE ONLY

1. OGCC Operator Number: 96850	API Number: 05-045-06510
2. Name of Operator: Williams Production R.M.T. Compan	OGCC Facility ID #
3. Well/Facility Name: Arco Deep 1-27	Well/Facility Number: 1-27
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSE, 27, T6S, R97W, 6PM	

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**

This COGCC Form 4 is being submitted as a request to meet the background concentration levels for arsenic at Arco Deep 1-27 well pad relative to the production pit closure at the subject facility; in accordance with footnote 1 to the COGCC Table 910-1. Closure activities pertain to the remediation number 5109 and spill tracking number 2521200.

The request is based on the analytical results presented below.

Six (6) grab samples were collected from locations within the pit footprint to ascertain the arsenic concentrations of the facility.

Sample Name	Location	Latitude	Longitude	Depth Below Surface (ft)	Arsenic Concentrations (mg/kg)
N-P-AD127	North Side Wall	39.492285	-108.207841	4	5.7
S-P-AD127	South Side Wall	39.492227	-108.207763	4	5.3
W-P-AD127	West Side Wall	39.49218	-108.20787	4	4.6
E-P-AD127	East Side Wall	39.492329	-108.207743	4	3.1
B1W-P-AD127	Bottom – West	39.492239	-108.207816	8	5.0
B2E-P-AD127	Bottom – East	39.492292	-108.207787	8	7.5

The average concentration was 5.2 mg/kg.

Three (3) grab samples were collected from nearby non-impacted, native soil to establish background arsenic concentrations.

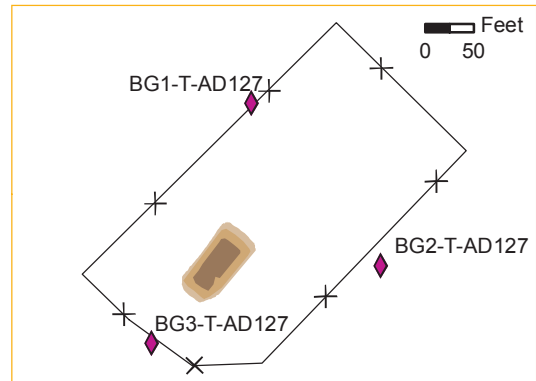
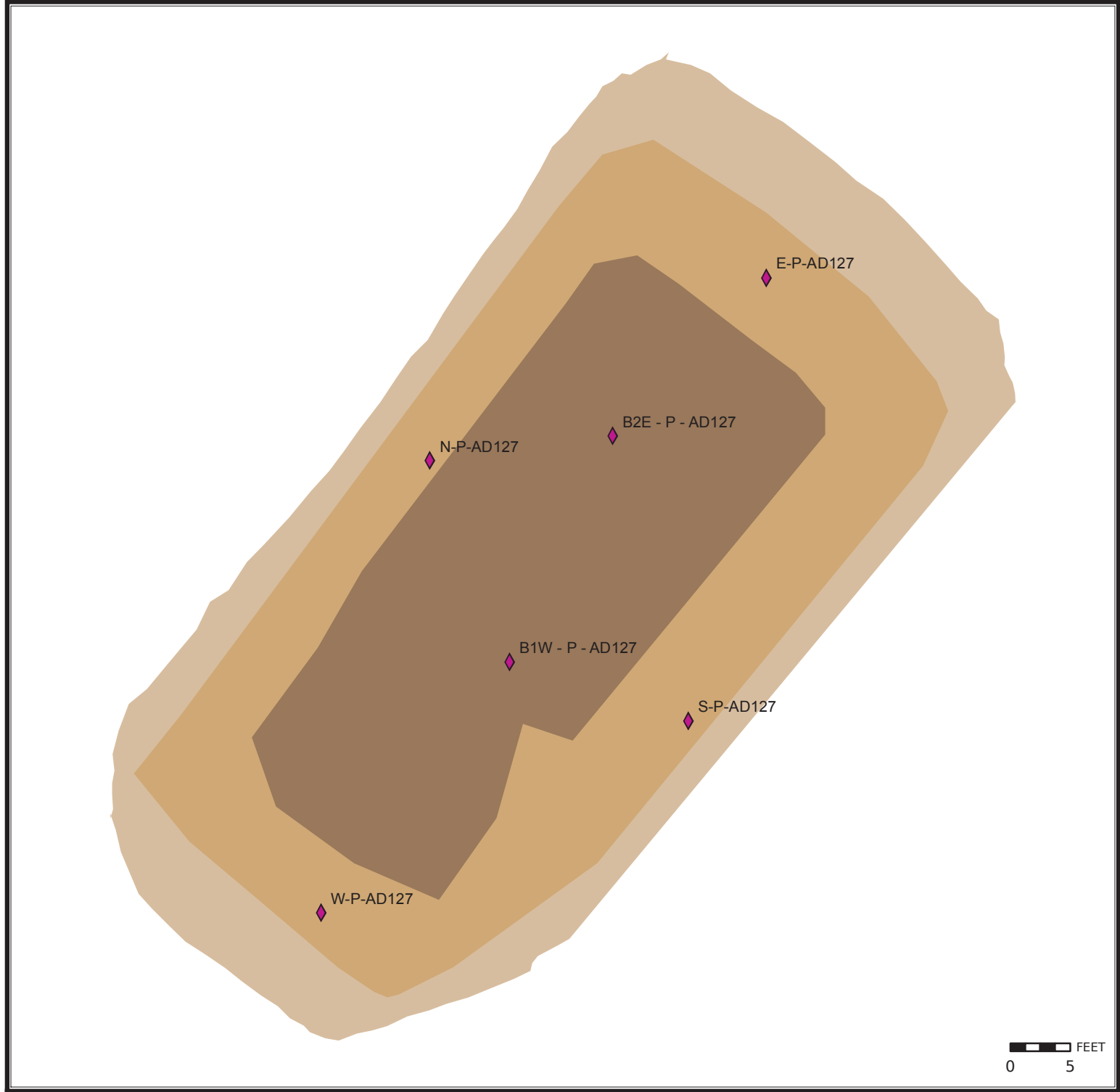
Sample Name	Location	Latitude	Longitude	Depth Below Surface (ft)	Arsenic Concentrations (mg/kg)
BG1-T-AD127	Background	39.492715	-108.207699	0.5	6.6
BG2-T-AD127	Background	39.492271	-108.207213	0.5	5.1
BG3-T-AD127	Background	39.492034	-108.208035	0.5	3.2

The average concentration was 4.9 mg/kg.

Williams is requesting this approval in order to proceed with closure and reclamation of the production pit located on the Arco Deep 1-27 well pad.

TOWNSHIP: 6 S      LATITUDE: 39.492508  
SECTION: 27      LONGITUDE: -108.204329  
RANGE: 97 W      NAD 1983 HARN - State Plane Colorado Central FIPS 0502

# Arco Deep 1-27



Initial Sampling  
Location Map  
Williams Production R.M.T.  
Trail Ridge Field  
West Grand Valley  
**Figure 4**

Drawn By: EKM  
Date: 07/08 2010  
Revised:  
Environmental, Audit & Assessment, Inc.  
225 North 5<sup>th</sup> Street, Suite 8  
Grand Junction, Colorado 81501  
(970) 245-5987      www.eaa-co.com

- ◆ Sample Locations
- Outer Edge
- Sidewall
- Pit Bottom
- Well Pad (approx)

