



## **Environmental, Audit & Assessment, Inc.**

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20 October 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

Mr. Canfield:

Please find the attached Sundry Form 4 and supporting documentation, submitted on behalf of Williams Production RMT Company, updating the existing open Form 27 for the closure of the production pit (Remediation #5109, Spill Tracking Number 2521200) at the Arco Deep 1-27 (NWSE, Sec 27, T6S, R97W; API 05-045-06510) well pad. As shown, the horizontal extent of the contamination has been identified; however, the vertical extent remains unknown. During the excavation of the east bottom portion of the pit a rock shelf was encountered. The track hoe attempted to break through on several occasions; however, was unsuccessful. Williams would like the opportunity to discuss options for further investigation of the pit bottom and would welcome an opportunity to meet.

Thank you in advance for your time in reviewing the attached document and consideration of Williams' meeting request. If you have any specific questions, would like additional information, or would otherwise like to discuss the matter further, please contact myself, Jason Rauen at 970-623-8993, or Gretchen Kohler at 303-260-4531, 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)894-2109



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.)

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 322539	Survey Plat
6. Well/Facility Name: Arco Deep 1-27	7. Well/Facility Number Arco Deep 1-27	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): NWSE, 27, 6S, 97W, 6 PM		Surface Eqpm Diagram
9. County: Garfield	10. Field Name: Grand Valley	Technical Info Page
11. Federal, Indian or State Lease Number: Remed 5109	Spill/Release Tracking # 2521200	Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNL/SL <input type="checkbox"/> FEU/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/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	
Formation	Formation Code
Spacing order number	Unit Acreage
Unit configuration	
<input type="checkbox"/> Remove from surface bond	
Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date:	
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME	
From:	NUMBER
To:	
Effective Date:	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Ready for inspection:	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned:	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
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"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input 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 checked="" type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other:	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: \_\_\_\_\_

OGCC Approved: Chris Canfield Title: for Chris Canfield 11/05/2010  
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. Company OGCC Facility ID #	
3. Well/Facility Name: Arco Deep 1-27	Well/Facility Number: 322539
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSE, 27, 6S, 97W, 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 and attached supporting documentation is being submitted to amend the existing open Form 27 for the Arco Deep 1-27. A COGCC Form 19 was submitted on September 3, 2010, indicating that a release was discovered during routine closure of the Arco Deep 1-27 production pit, Remediation Number 5109 and Spill/Release Tracking Number 2521200. It is not believed that the release was caused due to improper care or operation of the pit. The cause is unknown and occurred unknowingly sometime in the past. This statement is supported by the pre-removal liner inspection which revealed no tears or rips below the high water mark.

As outlined in the approved Form 27, upon removal of the pit liner, soil samples were collected from the four sidewalls and the bottom of the pit. Samples were submitted to Accutest Laboratories for analysis of COGCC Table 910-1 parameters. Once concentrations exceeding 910-1 were confirmed via laboratory analytical, the suspect soils from the bottom east section of the pit were excavated and stockpiled in lined secondary containment. The excavation was driven by visual and olfactory assessment, PID readings, and PetroFlag measurements.

During the excavation of the east bottom portion of the pit a rock shelf was encountered. The track hoe attempted to break through on several occasions; however, was unsuccessful. A soil sample was collected from the bottom of the excavation and submitted for analysis. Analytical results showed DRO concentrations to exceed the allowable concentrations in Table 910-1.

At this time, the horizontal extent of the contamination has been identified; however, vertical extent is unknown. Further investigation is planned to define the extent of the contamination.

Please note, the well pad is situated approximately 8,632 feet above sea level on non-crop rangelands and Parachute-Rhone loams soils with moderate to severe erosion potential. Vegetation consists of sage brush and grassland communities. Receiving waters include an unnamed ephemeral stream that is tributary to Baker Gulch. No flow was observed during the pit closure process. The estimated distance to the receiving waters is approximately 315 feet.