

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)594-2100 Fax: (303)594-2109



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: Ty Woodworth	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Williams Production RMT Company	Phone: 970 274 9254	
3. Address: 1058 County Road 215 City: Parachute State: CO Zip: 81635	Fax: 970 285 9573	
5. API Number: 05-045-07466	OGCC Facility ID Number: 324085	
6. Well/Facility Name: RMV 216-21	7. Well/Facility Number: RMV 216-21	Survey Plat
8. Location (Otr/Otr, Sec, Twp, Rng, Meridian): SENW 521, T6S, R94W, 6th		Directional Survey
9. County: Garfield	10. Field Name: Rutison	Surface Equip Diagram
11. Federal, Indian or State Lease Number:		Technical Info Page
		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface which is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FULL/FSL <input type="checkbox"/> FULL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> attach directional survey
Bottomhole location Otr/Otr, 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:	NUMBER
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	From:
	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	
Method used	*submit ctd and cement job summaries
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 checked="" type="checkbox"/> Report of Work Done
Approximate Start Date:	Date Work Completed: 1/13/2011
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"/> 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 type="checkbox"/> Other:
	<input type="checkbox"/> E&P Waste Disposal
	<input type="checkbox"/> Beneficial Reuse of E&P Waste
	<input checked="" 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: Karolina Blaney Date: 1/13/2011 Email: Karolina.Blaney@Williams.com
Print Name: Karolina Blaney Title: Environmental Specialist

OGCC Approved: For Chris Canfield Date: 01/17/2011
CONDITIONS OF APPROVAL, IF ANY:

EPS NW Region



TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

- | | | |
|---|---|---|
| 1. OGCC Operator Number: 96850 | API Number: 05-045-07466 | ✓ |
| 2. Name of Operator: Williams Production RMT Company | OGCC Facility ID # 324085 | |
| 3. Well/Facility Name: RWF 342-22 RMV 216-21 | Well/Facility Number: RWF 342-22 | |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENW S21, T6S, R94W, 6th | | ✓ |

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

Attached with this COGCC Form 4 is the RMV 216-21 workover/skim pit investigation Summary Report. The Summary Report covers activities that were proposed in the Investigation Form 27 that was submitted in March of 2010. The COGCC remediation number is 5168.

Based on the results of this investigation, Williams is considering several remediation options which will be described in a subsequent Form 4.

Activity and Sampling Summary

RMV 216 21 Workover Pit Closure Sec. 21, T6S, R94W

- As stated in the submitted Form 27 prepared for submittal in March of 2010, 3 additional soil borings were drilled to further delineate the vertical extent of contamination and any potential impacts to groundwater if present. Drilling took place from October 5-11, 2010. Two of the borings were drilled within the pit boundary. BH06 was drilled on the western side of the pit between borings 1 and borings 3 and 4. BH07 was drilled east of borehole 5, the area of the pit in which the greatest amount of contamination was observed. BH08/MW1 was drilled on the southern edge of the RMV 216 21 pad downgradient of the former workover pit. These additional boring locations have been plotted on an updated map.
- The pit borings were drilled utilizing a combination hollow stem augers and a Down the Hole Hammer (DTH Hammer) which is advanced with an outer string of casing. The inner string of pipe and the hammer can be removed from the hole which allows for split spoon sampling of undisturbed soil. There is virtually no cave or slough which allows for sample collection that portrays a very accurate representation of the subsurface soil conditions and possible remediation options.
- BH06 was drilled within the pit boundary between Boreholes 3 & 4 and Borehole 1. The hole was advanced to 25 feet utilizing the 6.25" I.D. hollow stem augers. This prevented any possible cross contamination from the impacted areas in the pit, most notably the 14 to 18 foot interval. Analytical results below 25 feet were well below Table 910-1 for hydrocarbons in all of the intervals sampled. Based on these numbers it is possible that the contamination from the pit doesn't exceed Table 910-1 below 24 feet.
- BH07 was drilled within the pit boundary to the east of BH05. Note that BH05 had some of the highest contamination levels in the 14 to 18 foot interval. Due to the higher surface elevation of BH06; the boring was advanced to 31.5 feet utilizing the 6.25" hollow stem augers prior to drilling out with the DTH hammer. Sample results from the 31-5 to 33.5 exhibit higher contamination levels, in the DRO range, than was observed in BH06. However the numbers are still well below Table 910-1 criteria for soil. Hydrocarbon numbers dropped substantially in the 41.5 to 43.5, the 50 to 52, and the 62 to 64 foot sample intervals. The BTEX constituents in all these intervals are flagged as well indicating the slight presence of the analyte but below the noted reporting limits as noted in the analytical report.

- BH08 was drilled on the southern edge of the 216-21 well pad at a location downgradient of the former workover pit. This hole was drilled utilizing the DTH hammer and casing from surface to TD. No hydrocarbon odors or staining was noted in any of the soil samples collected from the spilt spoon sampler or the cuttings. PID readings from the samples collected in the spilt spoon were non-detect. The hole started getting moist at approximately 73 feet. In order to keep the casing from getting plugged with moist clay a small amount of water was added to the air stream to prevent this. The 80 to 82 foot sample interval was saturated. The hole was then advanced to 100 feet to determine if bedrock was present. Bedrock was not encountered. The hole was still wet and was making approximately .5 to .75 GPM of water when the bit was pulled 6 inches off bottom and air circulated through the drill stem. A 2 inch monitoring well was installed in the borehole with a screened interval from 80 to 100 feet.
- The monitor well was developed and sampled on October 18, 2010. Results from the sampling were non-detect which would indicate that groundwater has not been impacted by the 216-21 workover pit. The well will be sampled again during the first quarter of 2011.



Borehole Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81503
970-243-3271

Project: Drilling Pit Sampling

Location: RMV 216-21

Date(s): 10/6-7/2010

Contractor: D.A. Smith Drilling

Rig Type: Simco 9100

Drilling Method: Auger & DTH Hammer w/cased Hole

Sample Type: 2' x 3" split spoon

Borehole Number BH06

Total Depth: 64 feet

Elevation Ground:

State Plane Cord. North:

State Plane Cord. East:

Logged By: M. E. Mumby

Page 1 of 1

Depth	Sample Interval	Recovery	Graphic Log	Material Description
0				Ground Surface
2				
4				
6				
8				
10				
12				
14				
16				
18				
20				
22				
24				
26	1			Augered to 24 feet with 6.25" hollow stem augers. This was done to avoid any potential cross contamination from the known impacts most notably from 14 to approximately 18 feet. Drilled out of the hollow stem augers at 24 feet with the DTH and casing. Refer to previously drilled boreholes 3 & 4 for soil types from surface to 24 feet.
28				
30				
32				
34				
36				
38				
40				
42	2			
44				
46				
48				
50				
52	3			
54				
56				
58				
60	4			
62	5			
64				
66				
68				
70				
72				



Borehole Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81503
970-243-3271

Project: Drilling Pit Sampling

Location: RMV 216-21

Date(s): 10/8 & 11/2010

Contractor: D.A. Smith Drilling

Rig Type: Simco 9100

Drilling Method: Augers & DTH Hammer w/ casing

Sample Type: 2' x 3" Spilt Spoon

Borehole Number BH07

Total Depth: 64 Feet

Elevation Ground:

State Plane Cord. North:

State Plane Cord. East:

Logged By: M. E. Mumby

Page 1 of 1

Depth	Sample Interval	Recovery	Graphic Log	Material Description
0				Ground Surface
2				
4				
6				
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32	1			
34				
36				
38				
40				
42	2			
44				
46				
48				
50	3			
52				
54				
56				
58				
60				
62	4			
64				
66				
68				
70				
72				
74				

Augered to 31.5 feet with 6.25" hollow stem augers. This was done to avoid any potential cross contamination from the known impacts most notably from 14 to approximately 18 feet. Drilled out of the hollow stem augers at 31.5 feet with the DTH and casing. Refer to previously drilled borehole 5 for soil types from surface to 31.5 feet.

Gravelly Clay and Cobbles

Yellowish brown to black, stiff, moist, scattered black hydrocarbon staining is present along fractures and the sides of rock fragments, entire interval has a moderate hydrocarbon odor which is decreasing with depth. There is no evidence of any free phase liquids or oil as observed in BH05.

PID 31-5-33.5 foot interval 368

Silty Clay

Brown, moist, firm, scattered gravels to 3" occasional larger cobbles up to 12" based on cuttings returns observed at the surface, no visible stain, interval still has a faint hydrocarbon odor.

PID 41.5 to 43.5 foot interval 30

Gravelly Clay and Cobbles

Yellowish brown, dry, stiff, occasional silty clay lenses from 45 to 64 feet based on cuttings returns observed at the surface, the 50-52 and 62-64 foot sample intervals were both gravelly clay, no visible stain or odor was observed in either interval.

PID 50-52 foot interval 12

PID 62-64 foot interval 3



Well Summary

744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling
Location: RMV 216-21
Date(s): 10/5-6/2010
Contractor: D.A. Smith Drilling Company
Rig Type: Simco 9100
Drilling Method: DTH Hammer w/Cased Hole
Sample Type: 2' x 3" Split Spoon

Well Name: BH08/MW1
Total Depth: 100 feet
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: M.E. Mumby

Page 1 of 2

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
-2					Ground Surface
0					Fill Intermixed silt, clay, gravels and cobbles, light gray, dry.
2					
4					
6					
8					
10					
12					Completion Information Screened Interval 80-100 feet TOS 77 feet TOB 3 feet Cemented from 0-3 feet
14					
16					
18					
20	1				
22					
24					
26					
28					
30					Gravelly Clay light yellowish brown, dry, scattered large cobbles consisting of sandstone and shale, cobbles are increasing in number and size with depth.
32					
34					PID 20-22 foot interval 0 PID 44-46 foot interval 0
36					
38					
40	2				
42					
44	3				
46					
48					
50					



Well Summary

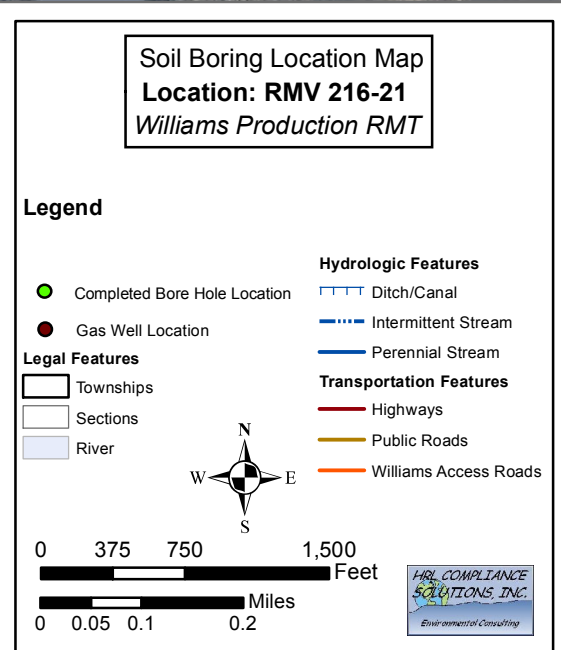
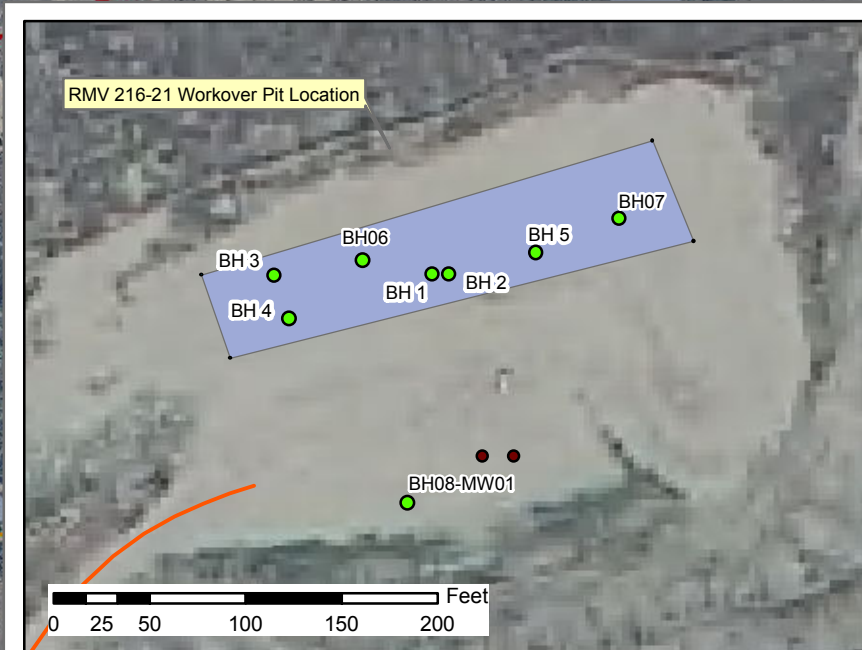
744 Horizon Court, Ste. 140
Grand Junction, CO 81501
970-243-3271

Project: Drilling Pit Sampling
Location: RMV 216-21
Date(s): 10/5-6/2010
Contractor: D.A. Smith Drilling Company
Rig Type: Simco 9100
Drilling Method: DTH Hammer w/Cased Hole
Sample Type: 2' x 3" Split Spoon

Well Name: BH08/MW1
Total Depth: 100 feet
Elevation TOC:
Elevation Ground:
Latitude:
Longitude:
Logged By: M.E. Mumby

Page 2 of 2

Depth	Sample Interval	Recovery	Well Construction	Graphic Log	Material Description
52					
54					
56					
58					
60					
62	5				Cobbles Clay Light yellowish brown, dry, large sandstone cobbles intermixed with clay, no odors, or visible staining.
64					
66					
68					Clayey Silt Clayey silt, yellowish brown, becoming moist, abundant large sandstone cobbles though out interval, increasing moisture content, having to add water at approximately 70 feet, abundant cobbles again from 76 to 79 feet, decreasing cobbles at 80 feet, well bore is making water on its own at 80 feet.
70					
72					
74	6				PID 60-62 for interval 0
76					
78					
80	7				Gravels Cobbles Silt Light yellowish brown, saturated, gravels and cobbles in a clayey silt to silt matrix, gravels consists of both sandstone and shales while the cobbles tend to be composed primarily of sandstone, no visible odors or staining, well bore is staining flow at approximately .5 to .75 GPM without the addition of water.
82					
84					
86					
88					
90					
92					
94					
96					
98					
100					
102					



RMV 216-21 Soil Boring Analytical Results

		Location →	RMV 216-21 BH01 1-3'	RMV 216-21 BH01 14-20'	RMV 216-21 BH01 24-26'	RMV 216-21 BH01 34-36'	RMV 216-21 background	RMV 216-21 BH02 10-14'	RMV 216-21 BH02 15-19'	RMV 216-21 BH02 20-24'	RMV 216-21 BH02 25-29'	RMV 216-21 BH02 30-34'	RMV 216-21 BH02 35-39'	RMV 216-21 BH02 39-41'	RMV 216-21 BH02 46-51'	RMV 216-21 BH03 14-18'
		Date Sampled →	1/13/2010	1/13/2010	1/13/2010	1/13/2010	1/13/2010	2/1/2010	2/1/2010	2/1/2010	2/1/2010	2/1/2010	2/1/2010	2/1/2010	2/1/2010	2/2/2010
Contaminant of Concern ↓	COGCC standards	COGCC Units ↓														
Organic Compounds in Soil																
TPH (DRO+GRO)	500	mg/kg		11,600	4,060	4,670	0	16,220	6,880	1,712	4,070	2,066	1,838	397	1,363	13,030
Benzene	0.17	mg/kg		6.91	3.58	3.38		5.4	3.9	0.654	2.17	1.26	1.81	0.684	1.34	23
Toluene	85	mg/kg		ND	ND	5.48		34.1	6.14	1.06	5.33	1.55	2.79	0.734	15.5	230
Ethylbenzene	100	mg/kg		29.6	8.52	16.1		33.6	18.1	3.56	14	4.68	8.37	0.731	3.73	42.8
Xylenes (Total)	175	mg/kg		410.7	71.47	182.5		432.4	199.8	21.64	152.9	455.55	83.86	6.997	47.36	712
Acenaphthene	1,000	mg/kg		ND	ND											
Anthracene	1,000	mg/kg		ND	ND											
Benzo(A)anthracene	0.22	mg/kg		ND	ND											
Benzo(B)fluoranthene	0.22	mg/kg		ND	ND											
Benzo(K)fluoranthene	2.2	mg/kg		ND	ND											
Benzo(A)pyrene	0.022	mg/kg		ND	ND											
Chrysene	22	mg/kg		ND	ND											
Dibenzo(A,H)anthracene	0.022	mg/kg		ND	ND											
Fluoranthene	1,000	mg/kg		ND	ND											
Fluorene	1,000	mg/kg		ND	ND											
Indeno(1,2,3-cd)pyrene	0.22	mg/kg		ND	ND											
Naphthalene	23	mg/kg		6.58	1.85											
Pyrene	1,000	mg/kg		0.113	ND											
Inorganics in Soil																
EC	<4 or 2 x background	mmhos/cm	10.7	7.76												
SAR	<12		11.9	20.2												
pH	6-9		8.46	8.73												
Metals in Soil																
Arsenic	0.39	mg/kg		6.7			7.7									
Barium LDNR	15,000	mg/kg														
Barium total	15,000	mg/kg														
Boron	2	mg/L		2.15												
Cadmium	70	mg/kg		0.62												
Chromium (III)	120,000	mg/kg		7.6												
Chromium (VI)	23	mg/kg		2.4												
Copper	3,100	mg/kg		21.6												
Lead	400	mg/kg		12.5												
Mercury	23	mg/kg		0.11												
Nickel	1,600	mg/kg		12.5												
Selenium	390	mg/kg		2.2												
Silver	390	mg/kg		0.55												
Zinc	23,000	mg/kg		38.8												

RMV 216-21 Monitoring Well Analytical Results

		Location →	MW 1
		Date Sampled →	1/13/2010
Contaminant of Concern ↓	COGCC standards	COGCC Units ↓	
Organic Compounds in Ground Water			
Benzene	5	ug/kg	ND
Toluene	560-1000	ug/kg	ND
Ethylbenzene	700	ug/kg	ND
Xylenes (Total)	1400-10000	ug/kg	ND
Inorganics in Soil			
TDS	<1.25 x backgrounds		
Chlorides	<1.25 x backgrounds		
Sulfates	<1.25 x backgrounds		