



01533866

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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



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DEC 06 2012

COGCC

## 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: 10421	4. Contact Name: Duncan Shepherd	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Petroleum Resource Mgmt. Corp.	Phone: 303-861-9480	
3. Address: 1580 Lincoln Street, Suite 635	Fax: 303-861-7362	
City: Denver State: CO Zip: 80203		
5. API Number 05-081-07750-00	OGCC Facility ID Number 430112	Survey Plat
6. Well/Facility Name: Sheehan 2	7. Well/Facility Number: #4-2	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): Tract 37, Section 2, T10N, R89W, 6th PM		Surface Equipmt Diagram
9. County: Moffat	10. Field Name: Wildcat	Technical Info Page
11. Federal, Indian or State Lease Number:		Other lab analyses

## 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/Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest lease line
Ground Elevation	Distance to nearest well same formation
Distance to nearest bldg, public rd, utility or RR	
Is location in a High Density Area (rule 603b)? Yes/No <input type="checkbox"/>	
Surface owner consultation date:	
GPS DATA:	
Date of Measurement	PDOF 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	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
*submit cbi and cement job summaries	
<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 checked="" type="checkbox"/> Notice of Intent		<input type="checkbox"/> Report of Work Done
Approximate Start Date: 12/6/2012		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 type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Bury drill cuttings	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: Rick Obornolte

Date: 12/3/2012

Email: rickobe1@aol.com

Print Name: Rick Obornolte

Title: Agent or PRM

COGCC Approved: David KulykoTitle: Location Assessment Date: 12-7-12

CONDITIONS OF APPROVAL, IF ANY:

Specialist

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TECHNICAL INFORMATION PAGE



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1. OGCC Operator Number: 10421 API Number: 05-081-07750-00
2. Name of Operator: Petroleum Resource Mgmt. Corp. OGCC Facility ID # 430112
3. Well/Facility Name: Sheehan 2 Well/Facility Number: #4-2
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): Tract 37, Section 2, T10N, R89W, 6th PM

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

PRM respectfully requests approval to mix the dried drill cuttings with clean subsurface soil excavated from the proposed cuttings burial pit and bury the mixture under three feet of clean unmixed subsurface soil.

The well site soils and the drill cuttings have both been analytically tested and a summary table of the test results is attached along with the analytical summary sheet from the laboratory. The attached table summarizes the test results showing the COGCC Table 910-1 concentration levels compared to the composite background soil sample and the composite drill cuttings sample.

The drill cuttings sample exceeds the COGCC Table 910-1 limits on SAR (at 12.3 vs. 12), pH (at 11.93 vs. 6-9), and Arsenic (at 3.6 vs. 0.39). The drill cuttings will be mixed with at least double its volume of subsurface soil prior to burial in the well pad cut slope to reduce the elevated readings. At least three feet of stockpiled well pad soil will then be placed on top of the buried cuttings.

Contaminant of Concern. in soils	Table 910-1, Allowed Concentration	Background Soil I	Background Soil IA	Drill Cuttings I	Drill Cuttings IA
TPH	500 mg/kg	ND	-	22.9	-
Benzene	0.17 mg/kg	ND	-	ND	-
Toulene	85 mg/kg	ND	-	ND	-
Ethylbenzene	100 mg/kg	ND	-	ND	-
Xylenes	175 mg/kg	ND	-	ND	-
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	-
Dibenzol(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-C)pyrene	0.22 mg/kg	ND	-	ND	-
Naphthalene	23 mg/kg	ND	-	0.0632	-
Pyrene	1,000 mg/kg	ND	-	0.0425	-
Electrical Conductivity	<4 mmhos/cm			0.149	
SAR	<12	-	1.72	-	12.3
pH	6-9	6.66	-	11.93	-
Arsenic	0.39 mg/kg	1.5	-	3.6	-
Barium	15,000 mg/kg	154	-	460	-
Boron	2 mg/l	-	-	-	-
Cadmium	70 mg/kg	<1.1	-	<1.8	-
Chromium (III)	120,000 mg/kg	19.0	-	14.8	-
Chromium (VI)	23 mg/kg	<1.0	-	<1.0	-
Copper	3,100 mg/kg	8.6	-	18.3	-
Lead (inorganic)	400 mg/kg	<5.3	-	22.3	-
Mercury	23 mg/kg	<0.089	-	<0.14	-
Nickel (soluble salts)	1,600 mg/kg	30.0	-	19.2	-
Selenium	390 mg/kg	<5.3	-	<9.2	-
Silver	390 mg/kg	<3.2	-	<5.5	-
Zinc	23,000 mg/kg	21.9	-	31.0	-

**Sample Summary**

Bolton Construction

Petroleum Resource Management

Job No: D41076

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D41076-1	11/19/12	13:08 DM	11/20/12	SO	Soil	CONTAMINATED SOIL
D41076-1A	11/19/12	13:08 DM	11/20/12	SO	Soil	CONTAMINATED SOIL
D41076-2	11/19/12	13:08 DM	11/20/12	SO	Soil	UNCONTAMINATED SOIL
D41076-2A	11/19/12	13:08 DM	11/20/12	SO	Soil	UNCONTAMINATED SOIL

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.



# Summary of Hits

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Job Number: D41076  
Account: Bolton Construction  
Project: Petroleum Resource Management  
Collected: 11/19/12

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D41076-1	CONTAMINATED SOIL					
Naphthalene		63.2	21	19	ug/kg	SW846 8270C BY SIM
Pyrene		42.5	15	7.9	ug/kg	SW846 8270C BY SIM
TPH-GRO (C6-C10)		22.9 J	26	13	mg/kg	SW846 8015B
Arsenic		3.6	0.18		mg/kg	SW846 6020A
Barium		460	1.8		mg/kg	SW846 6010C
Chromium		14.8	1.8		mg/kg	SW846 6010C
Copper		18.3	1.8		mg/kg	SW846 6010C
Lead		22.3	9.2		mg/kg	SW846 6010C
Nickel		19.2	5.5		mg/kg	SW846 6010C
Zinc		31.0	5.5		mg/kg	SW846 6010C
Specific Conductivity		7460	1.0		umhos/cm	SM2510B-1997 MOD
Chromium, Trivalent <sup>a</sup>		14.8	2.8		mg/kg	SW846 3060/7196A M
Redox Potential Vs H2		67.0			mv	ASTM D1498-76M
pH		11.93			su	SW846 9045D
D41076-1A	CONTAMINATED SOIL					
Calcium		150	2.0		mg/l	SW846 6010C
Sodium		547	2.0		mg/l	SW846 6010C
Sodium Adsorption Ratio <sup>b</sup>		12.3			ratio	USDA HANDBOOK 60
D41076-2	UNCONTAMINATED SOIL					
Arsenic		1.5	0.11		mg/kg	SW846 6020A
Barium		154	1.1		mg/kg	SW846 6010C
Chromium		19.0	1.1		mg/kg	SW846 6010C
Copper		8.6	1.1		mg/kg	SW846 6010C
Nickel		30.0	3.2		mg/kg	SW846 6010C
Zinc		21.9	3.2		mg/kg	SW846 6010C
Specific Conductivity		149	1.0		umhos/cm	SM2510B-1997 MOD
Chromium, Trivalent <sup>a</sup>		19.0	2.1		mg/kg	SW846 3060/7196A M
Redox Potential Vs H2		158			mv	ASTM D1498-76M
pH		6.66			su	SW846 9045D
D41076-2A	UNCONTAMINATED SOIL					
Calcium		9.43	2.0		mg/l	SW846 6010C
Magnesium		1.42	1.0		mg/l	SW846 6010C
Sodium		21.4	2.0		mg/l	SW846 6010C
Sodium Adsorption Ratio <sup>b</sup>		1.72			ratio	USDA HANDBOOK 60

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

(b) Calculated as: (Na meq/L) / sqrt [(Ca meq/L) + (Mg meq/L)/2]