FORM
27
Rev 3/16

Name of Operator: PADCO LLC

State of Colorado Oil and Gas Conservation Commission

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



24500

Document Number: 401775039

Receive Date: 09/26/2018

Report taken by: ROB YOUNG

Phone Numbers

Site Investigation and Remediation Workplan (Supplemental Form)

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. However, this shall not preclude the Operator from taking immediate action to protect public health or safety, the environment, wildlife, or livestock

This Form 27 describes site conditions as currently understood by the Operator; approval of this Form 27 by COGCC is based on the site conditions accurately described herein; any changes in site conditions identified during or subsequent to the performance of the approved workplan may necessitate additional investigation or remediation which shall be described on a supplemental Form 27. This Form 27 is intended to provide basic information regarding the proposed site investigation and remediation actions, but the workplan may be more fully described in attached documentation.

Refer to Rules 340, 905, 906, 907, 908, 909, and 910

OPERATOR INFORMATON

Operator No:

Address: P O BOX 5275	Phone: (918) 6309912
City: BEVERLY HILLS State:	CA Zip: 90209-5275 Mobile: ()
Contact Person: Dan Richmond	Email: dan@dsrinc.net
PROJECT, PU	RPOSE & SITE INFORMATION
PROJECT INFORMATION	
Remediation Project #: 10602	Initial Form 27 Document #: 401435144
PURPOSE INFORMATION	
901.e. Sensitive Area Determination	909.c.(5), Rule 910.b.(4): Remediation of impacted ground water
909.c.(1), Rule 905: Pit or PW vessel closure	Rule 909.e.(2)A.: Notice completion of remediation in accordance with Rule 909.b.
X 909.c.(2), Rule 906: Spill/Release Remediation	Rule 909.e.(2)B.: Closure of remediation project
909.c.(3), Rule 907.e.: Land treatment of oily waste	Rule 906.c.: Director request
909.c.(4), Rule 908.g.: Centralized E&P Waste Management Facility closure	Other Remediation of soils SW and W of produced water pit requested by Rob Young (Doc# 678200383)
SITE INFORMATION N Multiple	Facilites (in accordance with Rule 909.c.)
Facility Type: WELL Facility ID:	API #: 121-07241 County Name: WASHINGTON
Facility Name: MILLER-REDIESS 1-A	Latitude: 40.207140 Longitude: -103.381040
** correct Lat/Long	g if needed: Latitude: 40.205589 Longitude:
QtrQtr: SESE Sec: 23 Twp: 3	Range: 54W Meridian: 6 Sensitive Area? No
SITE CONDITIONS	
General soil type - USCS Classifications SW	Most Sensitive Adjacent Land Use Pasture
Is domestic water well within 1/4 mile? No	Is surface water within 1/4 mile? No
Is groundwater less than 20 feet below ground surface? Yes	
Other Potential Receptors within 1/4 mile	
Intermitent stream located 400-500' North	
Intermitent stream located 400-500' North	

SITE INVESTIGATION PLAN

			OITE HAVEO	IOATION LAN	
TYPE OF V	<u>VASTE:</u>				
X E&P	Waste	Other E&P W	aste	Non-E&P Waste	
X Proc	Produced Water Workover Flui		ds		
Oil Tank Bottoms		Tank Bottoms			
Con	densate	Pigging Waste	e		
Drilli	ng Fluids	Rig Wash			
Drill	Drill Cuttings Spent Filters				
		Pit Bottoms			
		Other (as des	cribed by EPA)		
DESCRIPT	ION OF IMPACT				
Impacted?	Impacted Media		Extent of Impact		How Determined
Yes	SOILS		approx 17,500 square	efeet	google earth
Yes	VEGETATION		approx 17,500 square	efeet	google earth
INITIAL ACTION SUMMARY Description of initial action or emergency response measures take to abate, investigate, and/or remediate impacts associated with E&P Waste. Indication of potential historic release impacting vegitation and soil. PADCO is not aware of the actual release, release date, or release volumes. PROPOSED SAMPLING PLAN Proposed Soil Sampling Will soil samples be collected as part of this investigation? (Number, type (grab/composite), analyses, and locations of samples): Initial samples taken, folow-up sampling and background sampling was performed (see attached table) Proposed Groundwater Sampling Will groundwater samples be collected as part of this investigation? (Number, analyses, and locations of samples):					
Proposed Surface Water Sampling					
Will surface water samples be collected as part of this investigation? (Number, analyses, and locations of samples):					
Additional Investigative Actions					
Additional alternative investigative actions described in attached Site Investigation Plan (summary):					

SITE INVESTIGATION REPORT

Soil	NA/	ND
Number of soil samples collected 22	NA	Highest concentration of TPH (mg/kg)
Number of soil samples exceeeding 910-1 8		Highest concentration of SAR 11.4
Was the areal and vertical extent of soil contamination delineated? Yes		BTEX > 910-1 No
Approximate areal extent (square feet) 17500		Vertical Extent > 910-1 (in feet) 1
Groundwater		
Number of groundwater samples collected 0		Highest concentration of Benzene (µg/l)
Was extent of groundwater contaminated delineated? No		— Highest concentration of Toluene (μg/l)
Depth to groundwater (below ground surface, in feet)		— Highest concentration of Ethylbenzene (μg/l)
Number of groundwater monitoring wells installed		— Highest concentration of Xylene (μg/l)
Number of groundwater samples exceeding 910-1		Highest concentration of Methane (mg/l)
Surface Water		
0 Number of surface water samples collected		
Number of surface water samples exceeding 910-1		
If surface water is impacted, other agency notification may be required.		
THER INVESTIGATION INFORMATION		
Were impacts to adjacent property or offsite impacts identified?		
Were background samples collected as part of this site investigation?		
Several background samples were collected (see attached)		
Was investigation derived waste (IDW) generated as part of this investigation?		
Volume of solid waste (cubic yards) Volume of	f liquid w	aste (barrels)

REMEDIAL ACTION PLAN

Does	this Supplemen	ntal Form 27A include changes to a previous	sly approved Remedial Action Plan? No	
SOU	IRCE REMOV	AL SUMMARY		
Desc	ribe how source	is to be removed.		
	Historic situation, no known source associated with this project			
DE.	IEDIATION OF	IMMADV		
	<u>IEDIATION SU</u>			
brief	narrative descrip		water is to be accomplished (i.e. summarize remedial action plan). Provide a ule for implementation, estimated time to attain NFA status, plus plans and	
	See attached			
<u>Soil</u>	Remediation	Summary		
X	In Situ		Ex Situ	
	Biorem	ediation (or enhanced bioremediation)	Excavate and offsite disposal	
	Chemic	cal oxidation	If Yes: Estimated Volume (Cubic Yards)	
	Air spai	rge / Soil vapor extraction	Name of Licensed Disposal Facility or COGCC Facility ID #	
	Yes Natural	Attenuation	Excavate and onsite remediation	
	Yes Other	See attached	Land Treatment	
			Bioremediation (or enhanced bioremediation)	
			Chemical oxidation	
			Other	
Gro	undwater Ren	nediation Summary		
	Bioremed	diation (or enhanced bioremediation)		
	Chemica	l oxidation		
	Air sparg	e / Soil vapor extraction		
	Natural A	attenuation		
	Other			
GRC	OUNDWATER	MONITORING		
If aro	oundwater has be	een impacted, describe proposed monitoring	g plan, including # of wells or sample points, monitoring schedule, analytical	
meth	ods, points of co	ompliance. Attach a groundwater monitoring	location diagram.	

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING
Frequency: Quarterly Semi-Annually X Annually Other
Report Type: Groundwater Monitoring X Land Treatment Progress Report O&M Report
Other
WASTE DISPOSAL INFORMATION
Was E&P waste generated as part of this remediation? No
Describe beneficial use, if any, of E&P Waste derived from this remediation project:
Volume of E&P Waste (solid) in cubic yards
E&P waste (solid) description
COGCC Disposal Facility ID #, if applicable:
Non-COGCC Disposal Facility:
Volume of E&P Waste (liquid) in barrels
E&P waste (liquid) description
COGCC Disposal Facility ID #, if applicable:
Non-COGCC Disposal Facility:
DEMEDIATION COMPLETION DEPORT
REMEDIATION COMPLETION REPORT
REMEDIATION COMPLETION SUMMARY
Is this a Final Closure Request for this Remediation Project? No
Do all soils meet Table 910-1 standards?
Does the previous reply indicate consideration of background concentrations?
Are the only residual soil impacts pH, SAR, or EC at depths greater than 3 feet below ground surface?
Does Groundwater meet Table 910-1 standards?
Is additional groundwater monitoring to be conducted?
RECLAMATION PLAN
RECLAMATION PLANNING
Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing.
See attached
Is the described reclamation complete? No
Does the reclamation described herein constitute interim or final reclamation of the Oil and Gas Location?
Interim? Final?
Did the Surface Owner approve the seed mix? No

If NO, does the seed mix comply with local soil conservation district recommendations? No

IMPLEMENTATION SCHEDULE

Attachment	Check List
COA Type Description	
	
Remediation Project Number: 10602	
COGCC Approved: ROB YOUNG	Date: 09/27/2018
Based on the information provided herein, this Application for Site II Rules and applicable orders and is hereby approved.	nvestigation and Remediation Workplan complies with COGCC
Submit Date:`09/26/2018	Email: tysmith@lesair.com
Signed:` Ty Smith	Title: Senior Project Engineer
I hereby certify all statements made in this form are to the best of	my knowledge true, correct, and complete.
OPERATOR COMMENT	
Date of completion of Reclamation.	
Date of commencement of Reclamation.	
SITE RECLAMATION DATES	
Date of completion of Remediation.	
Date of commencement of Remediation. 11/01/2017	
REMEDIAL ACTION DATES	
Date of completion of Site Investigation. 08/01/2017	
Date of commencement of Site Investigation. 10/25/2016	
Date of Initial Actions described in Site Investigation Plan (start date).	10/25/2016
SITE INVESTIGATION DATES	
Actual Spill or Release date, if known.	
Date of Surface Owner notification/consultation, if required.	
PRIOR DATES	

Upon approval, the approved Form 27 and all listed attachments will be indexed to the Remediation Project file. Only the approved Form 27 will also be indexed to the related Facilities.

<u>Name</u>
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401775039	FORM 27-SUPPLEMENTAL-SUBMITTED
401775096	REMEDIATION PROGRESS REPORT

Total Attach: 2 Files

General Comments

<u>User Group</u>	Comment	Comment Date
Environmental	Revegetation project update. July 2018 photos indicate areas of revegetation.	09/27/2018

Total: 1 comment(s)