

State of Colorado
Oil and Gas Conservation Commission



#7280

FOR OGCC USE ONLY

RECEIVED
9/13/2010

OGCC Employee:

Spill Complaint
 Inspection NOAV

Tracking No:

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

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Drilling pits are being investigated for possible spill releases/contam.

OGCC Operator Number: 97730	Contact Name and Telephone: David L Wyman
Name of Operator: Louis M Wyman	No: 970-701-9388
Address: 4600 E Hwy 40	Fax:
City: Craig State: CO Zip: 81625	

API Number: 05-107-06095	County: Routt
Facility Name: <u>Pit # 113100</u>	Facility Number: <u>LOCATION # B 16761</u>
Well Name: Robson-Wyman	Well Number: 14-16
Location: (QtrQtr, Sec, Twp, Rng, Meridian): SWSW 16 4N 89W 6	Latitude: 40.31012 Longitude: 107.40115

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Drilling Mud (test for possible crude oil/prod. water)

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Dry land grazing

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: clay/weathered Mancos Shale

Potential receptors (water wells within 1/4 mi, surface waters, etc.): 1/2 mile south of Williams Fork River

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input type="checkbox"/> Soils	_____	_____
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Drilling fluid ponds was graded/pushed in. Well was drilled in 1982 and history of ponds are unknown. 2 discrete samples taken at downgradient end of ponds from bore hole will be analyzed (Stewart Environmental Consultants, Inc.) per table 910-1, as per suggestion of Alex Fischer. No oil was observed during grading.

Describe how source is to be removed:

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

If no contamination is present after test results are analysed, graded ponds will be reseeded and left as is. If soil is found to have contamination, then a remediation plan will be submitted to match appropriate contamination type and concentrations found.

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SEP 13 2010
COGCC/Rifle Office

FORM 27 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801, Denver, Colorado 80203
(303)894-2100 Fax: (303)894-2109



Tracking Number: Doc # 2230352
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: 107-06095

Page 2

REMEDATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

N/A

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. Use additional sheet for description if required.

Existing grading provides appropriate drainage. No compaction testing was done at this site. Graded ponds are part of a larger tract of land owned by the operator. If settling that prohibits proper drainage is observed property owner/operator will address this in the spring. This small area of less than a 1/4 acre has already been seeded with a premium dryland pasture mix recommended by the Routt County Extension agent. All weeds will be sprayed along with normal weed abatement provided for the wellsite.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

Unknown till results are known from testing.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 9/16/2010 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: 10/17/2010 Actual Completion Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: David L. Wyman Signed: _____
Title: Manager Date: 9/13/2010

OGCC Approved: ACE for Alex Fischer Title: West Env. Supervisor Date: 9/13/2012

COAs:

1. Provide GPS coordinates for all of the pits.
2. Treat and resample the area to address high SAR and pH level.
3. Delineate potential salt impact in area extending approximately one half mile north of pit.
4. Provide depth of each sample collected.

TABLE 1
SUMMARY OF SOIL SAMPLE LABORATORY RESULTS
Wyman Gas Wells
Pagoda, Colorado
Project No.: 4264-001

Sample ID	BTEX				TVPH	TEPH	PAH*	EC	SAR	pH	Metals												
	Benzene	Toluene	Ethyl Benzene	Total Xylenes							As	Ba	B	Cd	Cr(III)	Cr(VI)	Cu	Pb	Hg	Ni	Se	Ag	Zn
Robson-Wyman #14-16 N	<0.002	<0.004	<0.004	<0.004	<10	<5	ND	1.31	48.7	9.87	8.2	148	38.7	0.343	13.6	<0.1	5.87	11.8	<0.11	13.1	<1.2	<0.3	86.1
Robson-Wyman #14-16 S	<0.002	<0.004	<0.004	<0.004	<10	<5	ND	1.5	29.8	8.48	6.8	132	31.4	0.378	9.82	<0.1	6.36	10.2	<0.11	11	<1.2	0.378	85
Pagoda Unit #33-34 P E	<0.002	<0.004	<0.004	<0.004	<10	<5	ND	1.87	2.66	7.87	3.35	145	18.9	<0.17	5.71	<0.1	0.283	5.99	<0.12	4.24	<1.1	0.442	19.6
Pagoda Unit #33-34 P W	<0.002	<0.004	<0.004	<0.004	<10	<5	ND	1.77	3.76	6.43	5.24	131	18	<0.18	7.85	<0.1	1.78	7.07	<0.11	5.3	<1.2	0.588	26.8
Pagoda Unit #T55-34G E	<0.002	<0.004	<0.004	<0.004	<10	<5	ND	1.85	3.21	7.46	4.16	218	28.5	<0.18	13.7	<0.1	3.95	12.3	<0.11	11.4	<1.2	0.984	41.3
Pagoda Unit #T55-34G W	<0.002	<0.004	<0.004	<0.004	31	<5	ND	1.74	3.58	7.13	2.52	135	18.9	<0.17	8.28	<0.1	4.12	6.08	<0.12	10.6	<1.1	0.639	30.7
Federal #42-33	<0.002	<0.004	<0.004	<0.004	12	23	ND	1.8	1.73	9.89	7.95	260	31.1	0.611	15.2	<0.1	39.7	105	<0.11	16.7	<1.1	0.349	82.2
Pagoda Unit - Background	—	—	—	—	—	—	—	1.61	—	—	1.86	126	24.2	<0.183	10.1	<0.1	3.82	5.33	—	7.97	<1.09	0.478	32.4
Regulatory Standard	0.17	85	100	175	500	500	various	2xblkgrd	<12	6-9	—	15000	—	70	120000	23	3100	400	23	1600	390	390	23000
USGS Background Values	—	—	—	—	—	—	—	—	—	—	5 - 9	—	20 - 30	—	—	—	—	—	—	—	—	—	—

NOTES:

All values reported in mg/kg (ppm); except for EC (umhos/cm), SAR (calculated ratio of sodium, calcium, and magnesium), and pH (standard units)
Values listed in BOLD typeface exceed the COGCC regulatory standard cited in Table 910-1.

USGS background values for arsenic and boron are provided for comparison to laboratory results due to special circumstances and analytical methods cited by COGCC.

* PAH results reported as non-detect for the entire set of 8 compounds; none of which was detected above the minimum reporting limit.