

State of Colorado
Oil and Gas Conservation Commission



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

#7275

FOR OGCC USE ONLY

RECEIVED
9/13/2010

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.

OGCC Employee:

- Spill Complaint
- Inspection NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

- Spill or Release
- Plug & Abandon
- Central Facility Closure
- Site/Facility Closure
- Other (describe): Close pits

OGCC Operator Number: 97730	Contact Name and Telephone: David Wyman
Name of Operator: Louis Wyman	No: 970-701-9388
Address: 4600 E. Hwy 40	Fax:
City: Craig State: CO Zip: 81625	
API Number: 05-107-05021 County: Routt	
Facility Name:	Facility Number: LOCATION # 316736
Well Name: Pagoda Unit	Well Number: 33-34P
Location: (QtrQtr, Sec, Twp, Rng, Meridian): SENW 34 4N 89W 6	Latitude: 40.27551 Longitude: 107.37870

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Condensate/Production 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.): Grazing

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

Potential receptors (water wells within 1/4 mi, surface waters, etc.): None-Stock pond is 1/4+ mile to the north

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	_____	_____

REMEDIATION WORKPLAN

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

These 2 small pits have not been used by the current producer-since purchase of this well. 1 discrete sample was taken below surface vegetation/loam layer (Stewart Environmental Consultants, Inc.) for analysis per table 910-1 for each pit.

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.:

Pond is empty and dry and has not been used for approximately 12-15 yrs. Verdant growth is present in pond. If no contamination is present after test results are analysed, pond will be graded and reseeded. If soil is found to have contamination, then a remediation plan will be submitted to match appropriate contamination type and concentrations found.

Submit Page 2 with Page 1

FORM 27 Rev 6/99

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Tracking Number: POC # 2230334 Name of Operator: OGCC Operator No: Received Date: Well Name & No: Facility Name & No:

Page 2 REMEDIATION 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.

If contamination is found, contaminated soil will be removed and disposed of, testing will be done to certify clean soil by Stewart Environmental Consultants, Inc.. Pond will be contoured for proper drainage and landowner will be consulted for slope and shape of final contours. Area will be reseeded with a premium dryland pasture mix recommended by the Routt County Extension agent.

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 [x] N If yes, describe:

Unknown until initial test results are returned.

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

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 8/16/2010 Date Site Investigation Completed: 9/30/2010 Date Remediation Plan Submitted: Remediation Start Date: Anticipated Completion Date: 9/30/2010 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: 9/22/2010

OGCC Approved: ACF for Alex Fischer Title: W Env Supervisor Date: 9/30/2012 COAs:

- 1. Provide depth of each sample collected. 2. Provide GPS coordinates for all of the pits and the As Drilled location of the well (the Form 4 Sundry submitted was in error). 3. Sample the area where the blow down line from the separator discharged directly into the road side ditch.



Pagoda 33-34P
05-107-05021





Pagoda 33-34P

05-107-05021



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(II)	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	8.87	8.2	146	36.7	0.343	13.6	<0.1	5.87	11.6	<0.11	13.1	<1.2	<0.3	66.1
Robson-Wyman #14-16 S	<0.002	<0.004	<0.004	<0.004	<10	<5	ND	1.5	28.8	6.48	6.8	132	31.4	0.378	9.82	<0.1	6.36	10.2	<0.11	11	<1.2	0.378	65
Pagoda Unit #33-34 P E	<0.002	<0.004	<0.004	<0.004	<10	<5	ND	1.67	2.96	7.57	3.06	145	18.8	<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	3.78	8.43	5.24	131	18	<0.18	7.95	<0.1	1.78	7.07	<0.11	5.3	<1.2	0.588	28.8
Pagoda Unit #T55-34G E	<0.002	<0.004	<0.004	<0.004	<10	<5	ND	1.85	3.21	7.48	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	0.636	30.7
Federal #42-33	<0.002	<0.004	<0.004	<0.004	12	23	ND	1.8	1.73	8.88	7.96	280	31.1	0.811	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	<0.163	10.1	<0.1	3.82	5.33	---	7.97	<1.09	0.476	32.4
Regulatory Standard	0.17	65	100	175	500	500	various	2xbigrd	<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 18 compounds; none of which was detected above the minimum reporting limit.