FORM 27 Rev 6/99

State of Colorado Oil and Gas Conservation Commission

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

| Incoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109 | Pit facility 286546 |
|--|---------------------|
| SITE INVESTIGATION AND REMEDIATION WORKPLAN | 1 11 140mty 2000+0 |
| | 0000 5 |

| 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): | | | | | |
| OGCC Operator Number: 10084 | Contact Name and Telephone: | | | | |
| Name of Operator: Pioneer Natural Resources USA, Inc. | David Castro | | | | |
| Address: 1401 17th Street, Suite 1200 | No: 303-298-8100 | | | | |
| City: Denver State: CO Zip: 80202 | Fax: 303-298-7800 | | | | |
| API Number: 05-071-08729 County: Las Animas | | | | | |
| Facility Name: Payden 41-9 pit Facility Number: 28654 | 46 | | | | |
| Well Name: Payden Well Number: 41-9 | | | | | |
| Location: (QtrQtr, Sec, Twp, Rng, Meridian): NENE, Sec. 9, T33S, R65W, 6th P.M. | Latitude: 37.19177 Longitude: -104.67047 | | | | |
| TECHNICAL CONDITION | S | | | | |
| Type of Waste Causing Impact (crude oil, condensate, produced water, etc): produced water | r | | | | |
| Site Conditions: Is location within a sensitive area (according to Rule 901e)? | ✓ N If yes, attach evaluation. | | | | |
| Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.) | | | | | |
| Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Subt | | | | | |
| Potential receptors (water wells within 1/4 mi, surface waters, etc.): Nearest permi | itted water well - 2825' (if SEO point is accurate) | | | | |
| Nearest surface water - 2200' (if live water is present) | | | | | |
| Description of Impact (if previously provided, refer to that form or document): | | | | | |
| Impacted Media (check): Extent of Impact: | How Determined: | | | | |
| Soils soil within pit | torn liner | | | | |
| Vegetation | | | | | |
| Groundwater | | | | | |
| Surface Water | | | | | |
| REMEDIATION WORKPL | LAN | | | | |
| Describe initial action taken (if previously provided, refer to that form or document): | | | | | |
| Produced water from this well was being stored in this lined onsite pit. The well is no longer going to the pit. | | | | | |
| Describe how source is to be removed: Produced water is not being sent to this lined pit and it is no longer needed. | | | | | |
| 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.: Produced water may be surface discharged under a CDPS permit, disposed of in a Class II UIC injection well, or utilized for dust supression. | | | | | |

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| Tracking Number: | | |
|---------------------|---|--|
| Name of Operator: | | |
| OGCC Operator No: | * | |
| Received Date: | | |
| Well Name & No: | | |
| English Name 9 Mars | | |

Page 2
REMEDIATION WORKPLAN (Cont.)

| OGCC Employee: | Tacility Harrie & H | <u>. </u> | | | |
|--|---|---|--|--|--|
| If groundwater has been impacted, describe proposed monitoring | ng plan (# of wells or sample po | ints, sampling schedule, analytical methods, etc.): | | | |
| It is not expected that produced water stored in groundwater. | this lined pit commun | icated with nor affected | | | |
| Describe reclamation plan. Discuss existing and new grade reconfinctuding location of new seed, seed mix and noxious weed prevention. Pit liner has been removed for soil sampling ar material will be utilized to backfill pit. Native fill and fill slopes. Fill material will be brought onsion the pit will be filled with at least 25% native soil material. Backfilled material may be contoured | on. Attach diagram or drawing. Ind properly disposed of material may be collecte, if needed, to adequal. If topsoil exists, this | Use additional sheet for description if required. If. if backberm of pit exists, this cted from the recontouring of cut uately backfill pit. The top 3 feet of material will be overlain on the fill | | | |
| Attach samples and analytical results taken to verify remediation is further site investigation required? Y N No impact to the surrounding environment ocu | If yes, describe: | | | | |
| Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.): Produced water may be surface discharged under a CDPS permit, disposed of in a Class II UIC injection well, or utilized for dust supression. | | | | | |
| | | | | | |
| | ITATION SCHEDULE | | | | |
| | ation Completed: 11/2014 letion Date: 1st qtr 2015 | Date Remediation Plan Submitted: 12/1/2014 Actual Completion Date: | | | |
| I hereby certify that the statements made in this form are, to the best of my knowledge, true, sorrect and complete. | | | | | |
| Print Name: David Castro | , to the best of my knowled | igo, ade, contest and complete. | | | |
| Title: Environmental Specialist | Date: 12/1/2014 | - Jan Carl | | | |
| OGCC Approved: | Title: | | | | |

Notify COGCC when closure process is completed.

METALS

Analytical results demonstrate that background concentrations of arsenic (As) exceed Table 910-1 concentration levels. Analytical results demonstrate that concentrations of As in soils in the pit also exceed Table 910-1 concentration levels and the pit concentrations are less than or within analytical uncertainty of being equal to the background concentrations. The analytical results are summarized below:

| METAL | BACKGROUND CONCENTRATION (MG/KG) | PIT CONTENTS, SOIL/BEDROCK BELOW PIT OR IMPACTED MEDIA (MG/KG) | TABLE 901-1 CONCENTRATION LEVELS (MG/KG) |
|---------|--|---|---|
| Arsenic | 2.9-3.7 | 3.4-3.7 | 0.39 |

COGCC and CDPHE have consulted and agree that operators do not need to request variances from CDPHE for instances where the concentrations of metals in impacted soils are equal to or less than background concentrations, but do not meet Table 910-1 concentration values. Operators must ensure that remaining pit contents are covered with a minimum of 3 feet of backfill and soil. The soil horizons must be replaced in their original relative position, and reclaimed in accordance with 1000 Series Rules.