

# APPENDICES

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## **APPENDIX A**

### **Interdisciplinary Team Analysis Record Checklist**

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# INTERDISCIPLINARY TEAM ANALYSIS RECORD CHECKLIST

**Project Title:** Dominion River Bend Unit Infill Project

**NEPA Log Number:** UT-080-07-772

**File/Serial Number:**

**Project Leader:** Kelly Buckner

**DETERMINATION OF STAFF: (Choose one of the following abbreviated options for the left column)**

NP = not present in the area impacted by the Proposed Action or alternatives

NI = present, but not affected to a degree that detailed analysis is required

PI = present with potential for significant impact analyzed in detail in the EA; or identified in a DNA as requiring further analysis

NC = (DNAs only) actions and impacts not changed from those disclosed in the existing NEPA documents cited in Section C of the DNA form.

| Determination | Resource   | Rationale for Determination*   | Signature        | Date               |
|---------------|--|--|------------------|--------------------|
| PI            | <b>Air Quality</b>                                       | Additional compression proposed. Also air quality impacts from equipment associated with the construction, drilling, completion, and production of 399 new wells.  | Stephanie Howard | 07/16/07           |
| NP            | <b>Areas of Critical Environmental Concern</b>           | There are no ACEC's in the project area.   | Joshua Fisher    | 07/11/07           |
| PI            | <b>Cultural Resources</b>                                | Any area that had not been previously inventoried needs to be inventoried due to the potential for disturbance.  | Blaine Phillips  | 07/16/07           |
| NP            | <b>Environmental Justice</b>                             | No minority or economically disadvantaged communities or populations would not be disproportionately affected by the proposed action or alternatives.  | Stephanie Howard | 07/16/07           |
| NP            | <b>Farmlands (Prime or Unique)</b>                       | There are no designated prime or unique farmlands in the Vernal Field Office area.   | Stephanie Howard | 07/16/07           |
| PI            | <b>Floodplains</b>                                       | Floodplains will be avoided wherever possible. However, when they can't be, mitigation or avoidance measures will be implemented by applying appropriate Best Management Practices (BMPs), Applicant Committed Measures, or as part of Conditions of Approval (COAs).  | Karl Wright      | 07/16/07           |
| PI            | <b>Invasive, Noxious Species</b>                         | Potential to spread existing invasive, noxious species. Vehicles should be power washed before entering project area. A Pesticide Use Permit needs to be in place before project begins. Invasive plant management will be the responsibility of the operator.   | Jessie Salix     | 07/13/07           |
| NP            | <b>Native American Religious Concerns</b>                | None present.  | Blaine Phillips  | 07/16/07           |
| PI            | <b>Threatened, Endangered or Candidate Plant Species</b> | Known locations of FWS-threatened clay reed-mustard ( <i>Schoenocrambe argillacea</i> ) in T10S R19E SEC 20 NW & S2, within ½ mile of project area; known habitat of FWS-threatened Uinta Basin hookless cactus ( <i>Sclerocactus wetlandicus</i> ) in T10S R 19E SEC 7 SWSW, within ½ mile of project area; potential habitat for Uinta Basin hookless cactus on benches along Green River. | Clayton Newberry | 07/16/07<br>4/7/08 |

| Determination           | Resource   | Rationale for Determination*  | Signature                       | Date                 |
|-------------------------|--|---|---------------------------------|----------------------|
| PI                      | <b>Threatened, Endangered or Candidate Animal Species</b>  | Razorback sucker, Colorado pikeminnow, Humpback chub, and bonytail habitat within ½ mile of the project area within the Green River. Yellow-billed cuckoo habitat within ½ mile of the project area along Cottonwood stands along the Green River.  | Brandon McDonald                | 07/09/07             |
| NI                      | <b>Wastes (hazardous or solid)</b>   | <p><i>Hazardous Waste:</i> No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this project. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this project”</p> <p><i>Solid Wastes:</i> Trash would be confined in a covered container and hauled to an approved landfill. Burning of waste or oil would not be done. Human waste would be contained and be disposed of at an approved sewage treatment facility.</p>        | Stephanie Howard                | 07/16/07             |
| PI Surface<br>NI Ground | <b>Water Quality (surface/ground)</b>  | <p><i>Surface:</i> Potential impacts to surface waters from sedimentation and contamination (in the case of accidental spills).</p> <p><i>Ground:</i> Compliance with State Rule R649-3-8, Casing Program, will assure that the project will not adversely affect groundwater quality. Due to the standard for casing design and state-of-the-art drilling techniques, the possibility of adverse degradation of groundwater quality by the proposed action will be negligible. The well casing design standard specifies the following: “<i>The casing program adopted must be planned to protect any potential oil or gas horizons penetrated during drilling from infiltration of waters from other sources and to prevent the migration of oil, gas, or water from one horizon to another.</i>”</p> | Stephanie Howard<br>Karl Wright | 12/19/07<br>07/16/07 |
| PI                      | <b>Wetlands/Riparian Zones</b>   | There are no riparian areas on BLM managed lands within the proposed project area (see Vernal Field Office GIS database). Riparian habitat located along Willow Creek on Tribal lands.  | Karl Wright                     | 07/16/07             |
| NP                      | <b>Wild and Scenic Rivers</b>  | There are no Wild and Scenic Rivers in the project area.  | Joshua Fisher                   | 07/11/07             |
| NP                      | <b>Suitable Wild and Scenic Rivers</b>   | The project area does lie adjacent to the Lower Green River. No impact would occur to the suitable WSR.   | Joshua Fisher                   | 07/11/07             |
| NP                      | <b>Wilderness</b>  | There are no WSAs in the project area.  | Joshua Fisher                   | 07/11/07             |
| NI                      | <b>County Transportation System</b>  | The operator will contact Uintah County for necessary permits, etc., for portions of the projects that would impact those roads on Uintah County’s Transportation System.   | Diane Coltharp                  | 07/16/07             |
| PI                      | <b>Fish and Wildlife Including Special Status Species other than FWS candidate or listed species e.g. Migratory birds.</b> | Roundtail chub, Bluehead sucker, and Flannel mouth sucker habitat within ½ mile of the project area. There are 3 Bald eagle roosts within ½ mile of the project area along the Green River. Also Golden eagle, Red-tailed hawk and American kestrel nests found within or within ½ mile of the project area. The proposed area contains White-tailed prairie dog habitat as well as Burrowing owl habitat; migratory birds (BHCA). The proposed area contains UDWR-designated crucial value and year-long fawning habitat for pronghorn antelope; crucial value and year-long fawning habitat for mule deer; and crucial value and year-long habitat for Rocky Mountain bighorn sheep.  | Brandon McDonald                | 07/09/07             |

| Determination | Resource   | Rationale for Determination*  | Signature         | Date     |
|---------------|--|---|-------------------|----------|
| NI            | <b>Fuels/Fire Management</b>                       | No planned fuel treatments.   | Steve Strong      | 07/17/07 |
| NI            | <b>Geology/Mineral Resources/Energy Production</b> | <p>Compliance with existing BLM construction restrictions on slopes and construction design will cause the possibility of the project initiating landslides, other mass movements, or flooding to be unlikely.</p> <p>Natural gas, oil, Gilsonite, oil shale, and tar sand are the only mineral resources that could be impacted by the project. Production of natural gas or oil would deplete reserves, but the proposed project allows for the recovery of natural gas and oil per 43 CFR 3162.1(a), under the existing Federal lease. Compliance with "Onshore Oil and Gas Order No. 2, Drilling Operations" will assure that the project will not adversely affect gilsonite, oil shale, or tar sand deposits. Due to the state-of-the-art drilling and well completion techniques, the possibility of adverse degradation of tar sand or oil shale deposits by the proposed action will be negligible.</p> <p>Well completion must be accomplished in compliance with "Onshore Oil and Gas Order No. 2, Drilling Operations". These guidelines specify the following: <i>"Proposed casing and cementing programs shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use."</i></p> | Jerry Kenczka     | 07/16/07 |
| NI            | <b>Lands/Access</b>                                | The surface ownership in the RBU Project Area consists of BLM land administered by the Vernal Field Office (17,301 acres, Uintah and Ouray Indian reservation administered by the Bureau of Indian Affairs (BIA) (3,847 acres), and State land administered by the School and Institutional Trust Lands Administration (SITLA) (640 acres). The proposed area is located within the Vernal Field Office Resource Management Plan, which allows for oil and gas development with associated road and pipeline right-of-ways. Current land uses, within the area identified in the proposed action and adjacent lands, consist of existing oil and gas development, Gilsonite mining, wildlife habitat, recreational use, and sheep and cattle ranching. No existing land uses would be changed or modified by the implementation of the proposed action; therefore, there would be no impact.  | Shauna Derbyshire | 07/11/07 |
| PI            | <b>Livestock Grazing</b>                           | The loss of vegetation due to the surface disturbances would likely be irretrievable due to the low precipitation and shallow soils. This loss of vegetation would reduce livestock and wildlife forage.  | Marc Stavropoulos | 07/16/07 |
| PI            | <b>Paleontology</b>                                | A paleontologic survey will be necessary before this project can be cleared from a paleontology program perspective. If the paleontological survey has already been completed, a copy needs to be sent to the VFO for review and approval.  | Blaine Phillips   | 07/16/07 |

| Determination   | Resource  | Rationale for Determination*  | Signature         | Date       |
|-----------------|---|---|-------------------|------------|
| Not Applicable  | <b>Rangeland Health Standards and Guidelines</b>  | Utah Rangeland Health Standard #1 requires that “upland soils exhibit permeability and infiltration rates that sustain or improve site productivity, considering the soil type, climate and landform”. Increased soil erosion and soil compaction could potentially result in a failure to achieve Rangeland Health Standard #1. See Soils Section for analysis.<br><br>Could cause the allotment to not meet Utah Rangeland Health standards #3 (due to increased invasive species due to disturbance which decreases the desired species). See Weeds Section for analysis.  | Marc Stavropoulos | 07/16/07   |
| NI              | <b>Recreation</b>   | The project area lies with the boundaries of the Limited entry, once in a life time, and general buck deer hunts. The area is also currently used for dispersed OHV recreation. There should be no impact in the recreational opportunities currently available in the project area.  | Jason West        | 12/05/2007 |
| PI              | <b>Socio-economics</b>  | The Proposed Action would affect the socio-economics of local cities and towns surrounding the project area. Project area work crews would likely increase local revenue through expenditures on lodging, meals, and supplies.<br>In the last 50 years, Uintah County has shifted from an agrarian economy to an oil and gas economy with services to support oil and gas (retail trade, private services, and government services). A single well would have a total drilling and completion cost of approximately \$600,000 according to IPAMS. A single well would employ approximately 34 employees over the life of the well (30 initial, 4 long-term). Long-term employment is approximately 15% of total employment for well development, and would be a more significant contributor to the community due to the fact that it would be more likely to draw employees from the local community than the initial employment, which would draw employees from both local and regional bases. Therefore, there is a positive impact to socioeconomics expected. | Stephanie Howard  | 07/16/07   |
| PI              | <b>Soils</b>  | Potential for increased soil erosion and/or sedimentation from increased surface disturbance.   | Steve Strong      | 07/17/07   |
| PI Veg<br>NP SS | <b>Vegetation including Special Status Plant Species other than FWS candidate or listed species</b> | Veg: Potential disturbance/removal of general vegetation.<br>SS: No Bureau-sensitive species known from project area.   | Clayton Newberry  | 07/16/07   |
| NI              | <b>Visual Resources</b>   | The project area is managed as VRM Class III under the Vernal RMP, which allows for moderate changes to the landscape. The project would be within management objectives.   | Joshua Fisher     | 07/11/07   |
| PI              | <b>Waters of the U.S.</b>   | Willow Creek and a number of unnamed ephemeral drainages occur within the project area. New surface disturbance is minimized by directional drilling; however, construction of new roads and pipelines may impact surface waters. Unavoidable impacts or road maintenance upgrades to surface waters should be coordinated with the U.S. Army Corps of Engineers for possible permitting.   | Sue Nall          | 07/10/07   |
| NP              | <b>Wild Horses and Burros</b>   | Not within an existing wild horse herd unit.  | Tim Faircloth     | 07/16/07   |
| NP              | <b>BLM Natural Areas (wilderness characteristics)</b>   | No BLM natural areas exist in the project area.   | Chuck Patterson   | 07/11/07   |
| NP              | <b>Woodland/Forestry</b>  | None present.   | Steve Strong      | 07/16/07   |

**FINAL REVIEW:**

| <b>Reviewer Title</b>          | <b>Signature</b> | <b>Date</b> | <b>Comments</b> |
|--------------------------------|------------------|-------------|-----------------|
| NEPA/Environmental Coordinator |                  |             |                 |
| Authorized Officer             |                  |             |                 |

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