

**United States Department of the Interior  
Bureau of Land Management**

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**Determination of NEPA Adequacy  
DOI-BLM-UT-G010-2010-0284-DNA**

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**JULY 2010  
August 2010 Competitive Oil and Gas Lease Sale**

***Location:*** Vernal Field Office

***Applicant/Address:*** Not Applicable

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Vernal Field Office  
170 South 500 East  
Vernal, UT 84078  
Phone: (435) 781-4400  
Fax: (435) 781-4410



**Worksheet**  
**Determination of NEPA Adequacy**

U.S. Department of the Interior  
Utah Bureau of Land Management (BLM)

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The signed CONCLUSION at the end of this worksheet is part of an interim step in the BLM's internal analysis process and does not constitute an appealable decision; however, it constitutes an administrative record to be provided as evidence in protest, appeals and legal procedures.

**Office:** Vernal Field Office (LLUTG01000)

**Tracking #:** DOI-BLM-UT-G010-2010-0284-DNA

**Proposed Action Title:** August 2010 Competitive Oil and Gas Lease Sale

**Location/Legal Description:** Parcels within Duchesne and Uintah County, Utah. Attachment 1 contains legal descriptions for each parcel.

**Applicant (if any):** Not Applicable

**A. Description of the Proposed Action and Any Applicable Mitigation Measures:** Nomination to lease for oil and gas development for the lands encompassed by the parcels has been received by the Bureau of Land Management (BLM) Utah State Office. The surface and mineral rights for the parcels – with the exception of the surface rights on split-estate portions of parcel UT0810-039 – are owned by the federal government and administered by the BLM, Vernal Field Office. Parcels UT0810-054 and UT0810-060 contain drainage management areas.

The proposed action is consistent with federal environmental laws and regulations, Executive Orders, and Department of Interior and the BLM policies and is in compliance, to the maximum extent possible, with state laws and local and county ordinances. Oil and gas leasing is a principal use of the public lands as identified in Section 102(a)(12), 103(1) of the Federal Land Policy and Management Act of 1976 (FLPMA), and it is conducted to meet requirements of the Mineral Leasing Act of 1920, as amended, the Mining and Minerals Policy Act of 1970, and the Federal Onshore Oil and Gas Leasing Reform Act of 1987 (Reform Act). Leases will be issued pursuant to 43 CFR subpart 3100.

If a parcel of land is not purchased at the lease sale by competitive bidding, it may still be leased within two years after the initial offering. A lease may be held for ten years, after which the lease expires unless oil or gas is produced in paying quantities. A producing lease can be held indefinitely by economic production.

A lessee must submit an Application for Permit to Drill (APD) (Form 3160-3) to the BLM for approval and must possess an approved APD prior to any surface disturbance in preparation for drilling. Any stipulations attached to the standard lease form must be complied with before an APD may be approved. Following BLM approval of an APD, a lessee may produce oil and gas from the well in a manner approved by BLM in the APD or in subsequent sundry notices. The operator must notify the appropriate authorized officer, 48 hours before starting any surface disturbing activity approved in the APD.

**B. Land Use Plan (LUP) Conformance**

LUP Name:

Vernal Resource Management Plan Record of Decision (VRMP/ROD), approved October 31, 2008  
(revised version).

The proposed action is in conformance with the applicable LUPs because it is specifically provided for in the following LUP decisions:

- The ROD for the VRMP/FEIS decisions MIN 6 – MIN 14 (pages 98-99) identifies those specific lands within the Vernal Field Office that are available for leasing as illustrated on its corresponding Oil and Gas Leasing map (Figure 8a). Within the ROD, Appendices K (Surface Stipulations to all Surface Disturbing Activities), L (Utah's T&E and Special Status Species Lease Notices for Oil and Gas and BLM

Committed Measures) and R (Fluid Mineral Best Management Practices) of the FEIS contain pertinent stipulations, lease notices and committed measures.

It is also consistent with RMP decisions and their corresponding goals and objectives related to the management of air quality, cultural resources, recreation, riparian, soils, water, vegetation, fish & wildlife and ACEC.

**C. Identify the applicable National Environmental Policy Act (NEPA) documents and other related documents that cover the proposed action.**

List by name and date all applicable NEPA documents that cover the proposed action.

- Final Vernal Resource Management Plan and Environmental Impact Statement UT-GI-04-001-1610, 2008.

List by name and date other documentation relevant to the proposed action (e.g. biological assessment, biological opinion, watershed assessment, allotment evaluation, and monitoring report).

- State of Utah Sensitive Species List (2007)
- RMP USFWS Biological Opinion (2008)
- RMP BLM Biological Assessment (2008)
- RMP SHPO Concurrence Letter (2008)
- Lease Sale SHPO Concurrence Letters (March 24 and June 3, 2010)
- Lease Sale Cultural Staff Reports (March and May 2010)
- Lease Sale Wildlife Report (2010)
- Lease Sale Botany Report (2010)

**D. NEPA Adequacy Criteria**

**1. Is the new proposed action a feature of, or essentially similar to, an alternative analyzed in the existing NEPA document(s)? Is the project within the same analysis area, or if the project location is different, are the geographic and resource conditions sufficiently similar to those analyzed in the existing NEPA documents(s)? If there are differences, can you explain why they are not substantial?**

Yes  
 No

**Documentation of answer and explanation:**

The proposed action is a feature of the VRMP/ROD. Leasing of the lands described in Attachment 1 was analyzed in the Final VRMP. The proposed action - leasing for oil and gas in the August 2010 sale - was analyzed in the above land use plan. Public land would be offered for leasing, as allowed for in the VRMP/ROD, and exploration and development for oil and gas resources may occur dependent on specific approval by the BLM and dependent on site-specific NEPA analysis. If land is leased, a lessee would be afforded rights to explore for and to develop oil and gas, subject to the lease terms, regulations, and laws.

The VRMP/EIS in Chapter 3 describes the affected environment. Chapter 4 describes the impacts of the proposed action and other alternatives. The ROD for the VRMP/EIS, on page(s) 96-99, identifies those specific lands within the Management Area that are available for leasing. Appendix K contains pertinent stipulations. Applicable best management practices for raptors and fluid minerals are also contained in appendices A and R (respectively) and lease notices detailed in Appendix L of the ROD would be applied, as required for these lease parcels. These are specifically identified by parcel in Attachment 1.

**Non WSA Lands with Wilderness Characteristics:** Parcel UT0810-054 is located within lands found to contain wilderness characteristics (Desolation Canyon Unit 1) during the 1999 Utah Wilderness Inventory. The inventory unit was not designated as a BLM Natural Area in the Vernal RMP; management decisions determined that the area would remain available for fluid mineral leasing.

**2. Is the range of alternatives analyzed in the existing NEPA document(s) appropriate with respect to the new proposed action (or existing proposed action), given current environmental concerns, interests, and resource values?**

Yes

No

**Documentation of answer and explanation:**

The VRMP/EIS analyzed the impacts of oil and gas leasing on all lands in the resource area under five different alternatives. The five alternatives ranged from emphasizing oil and gas exploration and development to minimizing oil and gas exploration and development with varying degrees of exploration and development activities and varying stipulations (restrictions) for each alternative. The alternatives analyzed, and the range of alternatives, covered the entire range of leasing possibilities. That range is still appropriate for this action given current concerns, interests, and values. In addition, alternatives were not identified by the interdisciplinary team or brought forward by the public.

**3. Is existing analysis adequate in light of any new information or circumstances (such as, rangeland health standards assessment; recent endangered species listings, updated list of BLM sensitive species)? Can you reasonably conclude that new information and new circumstances would not substantially change the analysis of the new proposed action?**

Yes

No

**Documentation of answer and explanation:**

Existing analysis is adequate. New information would not change the analysis as documented below. All resources are adequately protected through leasing category and applicable stipulations and notices.

The VFO received the preliminary May and August 2010 competitive oil and gas lease sale parcel lists on January 28, 2010 and April 23, 2010 (respectively). Copies of the preliminary lists were provided to the interdisciplinary team for review. On May 24, 2010, the ID team of resource specialists, identified in Part E of this DNA, met to discuss the preliminary lease parcels. As part of the review process, the VRMP/ROD was reviewed for applicable leasing categories, stipulations, and resource impact from oil and gas leasing. The parcels were reviewed individually by specialists for potential impacts to wildlife, plants, cultural, and watershed. Lease stipulations were added as a result of those reviews in accordance with the VRMP/ROD.

Individual members of the ID team provided recommendations regarding the adequacy of existing NEPA documentation. The BLM VFO management then conducted an additional multiple-use review in light of the parcel specific reviews, existing oil and gas lease categories, all required stipulations and relevance of information found in the Final Vernal RMP. The results of these reviews for the parcels recommended for sale in the August 2010 lease sale are presented below. Resource information, none of which is substantial, is described below.

**Cultural Resources:** Based on the information provided in the Cultural Staff Reports (March 2010 and May 2010) the known and potential sites in the APE of the parcels proposed for leasing adherence to Section 106 of the National Historic Preservation Act of 1966 will not be adversely affected as amended and other applicable laws and regulations including Onshore Order #1.

The area of potential effect (APE) is considered to be the area within the polygon for each of the lease areas. All parcels have current access roads located on them. If additional road accesses are needed they will be evaluated with each individual well placement.

A Class I inventory was conducted on the entire proposed lease area. Previously conducted cultural surveys were identified in at least part of the proposed lease areas. No cultural material was identified in association with any of those surveys. A review of areas close to the lease areas, with similar habitat revealed a low probability of finding any "eligible" cultural material in the immediate areas. Based on the topography, limited vegetation and lack of water it is unlikely that you would find any significant cultural material within the proposed lease areas.

Parcel's UT0510-034; UT0510-035; UT0510-036; UT0810-052; UT0810-053; UT0810-054; UT0810-055; UT0810-056; UT0810-057; UT0810-058; UT0810-059; and UT0810-060 have limited potential for finding "eligible" sites within the unsurveyed portions of the proposed parcels, and due to the expected site type, size and their density of occurrence, it has been determined that reasonable development could occur on these proposed

parcels without impact to "eligible" cultural properties making a recommendation of "no adverse effect to historic properties."

Parcel UT0510-039 has been under cultivation probably for an extended period of time yet the parcel is located between two parcels of Tribal land making the possibility of finding "eligible" cultural material probable. The cultivation may have removed the integrity of the sites, but there is still a possibility that "eligible" sites can be identified. A determination of "no adverse effect to historic properties" is being recommended pending an intensive cultural inventory. Avoidance is practiced by the VFO where possible, otherwise mitigation is implemented through Section 110 of the National Historic Preservation Act of 1966 as amended. Traditional Cultural Properties are always avoided and a protective buffer is implemented for a .5 mile radius.

To assure appropriate consideration of future effects from the August 2010 lease sale, the BLM will add the following "lease stipulation" (WO-IM-2005-003), to all parcels offered for lease.

*"This lease may be found to contain historic properties and/or resources protected under the National Historic Preservation Act (NHPA), American Indian Religious Freedom Act, Native American Graves Protection and Repatriation Act, E.O. 13007, or other statutes and executive orders. The BLM will not approve any ground disturbing activities that may affect any such properties or resources until it completes its obligations under applicable requirements of the NHPA and other authorities. The BLM may require modification to exploration, or development proposals to protect such properties, or disapprove any activity that is likely to result in adverse effects that cannot be successfully avoided, minimized or mitigated."*

The BLM completed Section 106 consultation for the August 17, 2010 lease sale, and determined that leasing and development of the relevant parcels would not adversely affect any historic properties (letters received from SHPO on March 24, 2010 and May 28, 2010). This correspondence is part of the administrative record.

**Native American Religious Concern:** Certified consultation letters were sent to the following Tribes on February 3 and May 6, 2010: Ute Mountain Ute Tribe, Goshute Indian Tribe, White Mesa Ute Tribe, Laguna Pueblo Tribe, Southern Ute Tribe, Ute Indian Tribe, Santa Clara Pueblo Tribe, Hopi Tribe, Zia Pueblo Tribe, Navajo Nation, Northwestern Band of the Shoshone Tribe, and the Eastern Shoshone Tribe. The letter requested comments be provided to the VFO within 30 days after receipt of the letter. One response letter was received on February 26, 2010 from the Pueblo of Laguna. The Pueblo of Laguna had no concerns. As of this date, no other responses or concerns pertaining to leasing of the preliminary parcels have been received. If any concerns are raised by the tribes, those concerns will be addressed. Consultation will be considered complete if tribal response presents no objections or if response is not received seven (7) days prior to the date of the proposed sale. Additional consultation will be conducted should site-specific use authorization requests for a lease be received. This correspondence is part of the administrative record.

**Fish and Wildlife Excluding USFWS Designated Species/Migratory Birds:** Detailed information on the inclusion of the appropriate lease notices and stipulations are contained in Attachments 1 (Parcel List), 2 (ID Team Checklist) and 3 (Staff Reports). Wildlife habitat and criteria were identified for raptors, deer fawning and winter, elk calving and winter, pronghorn fawning, Mexican spotted owl, migratory birds and Colorado endangered fish from GIS data layers developed by the BLM, UDWR/Utah Heritage Program data and field office records. All of these habitats are addressed in the RMP and provided certain protections or identify where species or habitat (existing or potential) may exist through stipulations or notices.

**Threatened, Endangered or Candidate Species:** In accordance with Washington Office Instruction Memorandum No. 2002-174, all parcels would be subject to the Endangered Species Act Section 7 Consultation Stipulation. This stipulation is as follows:

*"The lease area may now or hereafter contain plants, animals or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that would contribute to a need to list such species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or*

*result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. 1531 et seq. including completion of any required procedure for conference or consultation."*

The BLM consulted with the USFWS, concerning the Vernal PRMP, as required, prior to initiation of any project by a federal agency that may affect federally listed special status species or their habitat in accordance with Section 7 of the ESA and with the Fish and Wildlife Coordination Act, 16 USC Sec 661 et seq. The RMP/EIS is considered a major planning action, and the BLM initiated formal consultation with the USFWS on August 22, 2008. The VRMP formed the basis for a Biological Assessment (BA). The BLM received the Biological Opinion (BO) from the USFWS on October 23, 2008, which advises the BLM on the actions that must be taken to protect federally listed special status species. A copy of the USFWS Biological Opinion can be found in Appendix N of the ROD. Included in these actions are the programmatic level lease notices for federally listed species occurring in Utah, that are required to be attached to all of the appropriate oil and gas leases offered in the State of Utah.

Based on the information provided in Attachments 2 and 3, and inclusion of all appropriate lease notices and stipulations (Attachment 1), the August 2010 sale of oil and gas lease parcels complies with the VRMP consultation, so that no federally listed species are likely to be adversely affected by the proposed action.

**Floodplains:** Stipulation UTSO-S-53 (Riparian, Floodplains, and Public Water Reserves) which identifies the need to comply with the Floodplain Executive Order No 11988 would be added to the appropriate parcels as identified in Attachments 1, 2 & 3. The added stipulation UTSO-S-53 would provide adequate protection for the resource. The information was addressed in the RMP and therefore was taken into account in the referenced NEPA document.

**Soils:** Stipulations UTSO-S-29 (Fragile Soils/Slopes Greater Than 40%) and UTSO-S-62 (Fragile Soils/Slopes 21-40%) that identifies if there may be steep slopes or sensitive soils in the area would be added to the appropriate parcels as identified in Attachments 1 and 2. The information was addressed in the RMP and therefore was taken into account in the referenced NEPA document.

**Non WSA Lands with Wilderness Characteristics:** Parcel UT0810-054 is contiguous to state land where several wells are currently in production. This has resulted in a drainage issue which would be resolved by offering the parcel for lease. Drilling activity would result in approximately four acres of surface disturbance and loss of naturalness, solitude and primitive recreation in the immediate area of the drill site.

**4. Are the direct, indirect, and cumulative effects that would result from implementation of the new proposed action similar (both quantitatively and qualitatively) to those analyzed in the existing NEPA document?**

Yes  
 No

**Documentation and explanation:**

The direct, indirect, and cumulative effects of leasing and drilling are identical to those analyzed in the VRMP/FEIS. This is because the proposed action is essentially the same and the existing resource conditions and values have not changed since analyzed in the EIS. The EIS used a general analysis of impacts, but these were tied to specific resources and values present in the specific areas. Leasing categories were established dependent on resources and values in particular areas and stipulations were designed for each of these categories to protect these resources and values. The RFD further defined expected impacts to specific exploration and production regions. These analyses are therefore region specific and allow region specific location and identification of potential impacts of the current leasing proposal.

**5. Are the public involvement and interagency review associated with existing NEPA document(s) adequate for the current proposed action?**

Yes  
 No

**Documentation and explanation:**

The public involvement and interagency review procedures and findings made through the development of the the Vernal RMP/EIS are adequate for the proposed lease sale. During the development of the documents listed above, public workshops and meetings and public comments were received. All comments were taken into account in the finalized documents.

The United States Fish and Wildlife Service, National Park Service, United States Forest Service, State of Utah and State Institutional Trust Lands Administration were notified of the proposed action via letters (dated 4/23/2010) regarding the August 2010 Competitive Oil and Gas Lease Sale and were provided a copy of the Preliminary List of Parcels. These agencies were also notified by letter on January 26, 2010 regarding parcels UT0510-034, 035, 036 and 039. Subsequent emails are sent to the USFWS and UDWR additional information including the parcel list and associate shapefile. This correspondence is part of the administrative record.

Public outreach and notification for this lease sale also occurred by posting the action on April 23, 2010 and January 26, 2010 (May 2010 Parcels, as updated) on the BLM's Environmental Notification Bulletin Board (<https://www.blm.gov/ut/enbb/index.php>) and Utah Oil and Gas web page ([http://www.blm.gov/ut/st/en/prog/energy/oil\\_and\\_gas/oil\\_and\\_gas\\_lease.html](http://www.blm.gov/ut/st/en/prog/energy/oil_and_gas/oil_and_gas_lease.html)). Notices are also placed in the Field Office and Utah State Office public rooms.

**E. Persons/Agencies/BLM Staff Consulted:**

<b>Name</b>	<b>Title</b>	<b>Resource Represented</b>
Jason West	Outdoor Recreation Planner	ACECs, BLM natural areas, recreation, VRM, wild and scenic rivers, and wilderness
Stephanie Howard	Environmental Coordinator	Environmental Justice, Air Quality, Farmlands, Lands/Access, Socio-economics, and Wastes
Nate Packer	Natural Resource Specialist	Team Lead, Waters of the U.S., Floodplains, Wetlands, Riparian, soils
Dan Emmett	Natural Resource Specialist Wildlife Biologist	Special Status Animal Species, Wildlife
Robin Hansen	Geologist	Paleontology Review
Kathie Davies	Archaeologist	Cultural Resources, Native American Religious Concerns
Aaron Roe	Botanist	Special Status Plant Species, Invasive, Non-native Plant Species
Michael Cutler Jannice Cutler Liza McDonald Stan Olmstead	Natural Resource Specialist	Range

Refer also the List of Preparers identified in the Approved RMP and ROD at page 199.



***Attachment 1***  
**Parcel List**

**UTU88046**

(UT0810-052)

T. 11 S., R. 15 E., Salt Lake

Sec. 11: NW.

160.00 Acres

Duchesne County, Utah

Vernal Field Office

**STIPULATIONS**

UTSO-S-01: Air Quality  
UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%  
UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)

**NOTICES**

UT-LN-24: Waterfowl Nesting Areas  
UT-LN-41: Raptor Habitat  
UT-LN-42: Migratory Bird  
UT-LN-46: Utah Sensitive Species  
T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin  
T&E-11: Uinta Basin Hookless Cactus

**UTU88047**

(UT0510-034)

T. 10 S., R. 16 E., Salt Lake

Secs. 19, 30 and 31: All.

1,912.88 Acres

Duchesne County, Utah

Vernal Field Office

**STIPULATIONS**

UTSO-S-01: Air Quality  
UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%  
UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)  
UTSO-S-96: TL - Greater Sage-Grouse Brood Rearing Nesting and Nesting  
UTSO-S-104: TL-Crucial Elk Calving and Deer Fawning Habitat

**NOTICES**

UT-LN-24: Waterfowl Nesting Areas  
UT-LN-41: Raptors  
UT-LN-42: Migratory Bird  
T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin

**UTU88048**

(UT0810-053)

T. 3 S., R. 19 E., Salt Lake

Sec. 34: E2SE;

Sec. 35: E2NE, S2.

480.00 Acres

Uintah County, Utah

Vernal Field Office

**STIPULATIONS**

- UTSO-S-01: Air Quality
- UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%
- UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)
- UTSO-S-96: TL - Greater Sage-Grouse Brood Rearing Nesting and Nesting
- UTSO-S-97: CSU - Greater Sage Grouse (Noise Reduction)
- UTSO-S-98: CSU - Greater Sage Grouse (Structures)
- UTSO-S-103: TL - Crucial Deer and Elk Winter Range
- UTSO-S-104: TL- Crucial Elk Calving and Deer Fawning Habitat
- UTSO-S-106: CSU - Crucial Deer Winter Range

**NOTICES**

- UT-LN-41: Raptors
- UT-LN-42: Migratory Bird
- UT-LN-46: Utah Sensitive Species
- UT-LN-48: Special Status Plants: Not Federally Listed
- T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin

**UTU88049**

(UT0810-054)

T. 11 S., R. 19 E., Salt Lake

Sec. 6: Lots 1-3, S2NE, SE.

347.55 Acres

Uintah County, Utah

Vernal Field Office

**STIPULATIONS**

- UTSO-S-01: Air Quality
- UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%
- UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)
- UTSO-S-96: TL - Greater Sage-Grouse Brood Rearing Nesting and Nesting
- UTSO-S-136: Drainage

**NOTICES**

- UT-LN-41: Raptors
- UT-LN-42: Migratory Bird
- UT-LN-46: Utah Sensitive Species
- UT-LN-87: Graham's Beardtongue (*Penstemon grahamii*)
- T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin
- T&E-11: Uinta Basin Hookless Cactus

T&E-19: Clay Reed-Mustard

**UTU88050**

(UT0510-035)

T. 6 S., R. 21 E., Salt Lake

Sec. 25: S2NW, SW;

Sec. 26: S2N2, N2SW, SESW, SE.

680.00 Acres

Uintah County, Utah

Vernal Field Office

**STIPULATIONS**

UTSO-S-01: Air Quality  
UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%  
UTSO-S-53: NSO - Riparian, Floodplains, and Public Water Reserves  
UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)  
UTSO-S-104: TL-Crucial Elk Calving and Deer Fawning Habitat  
UTSO-S-130: NSO/CSU/TL - Raptors  
UTSO-S-136: Drainage

**NOTICES**

UT-LN-41: Raptors  
UT-LN-42: Migratory Bird  
UT-LN-46: Utah Sensitive Species  
UT-LN-86: Horseshoe Milkvetch (*Astragalus equisolensis*)  
T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin

**UTU88051**

(UT0810-055)

T. 7 S., R. 21 E., Salt Lake

Sec. 1: Lots 9, 10.

85.80 Acres

Uintah County, Utah

Vernal Field Office

**STIPULATIONS**

UTSO-S-01: Air Quality  
UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%  
UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)

**NOTICES**

UT-LN-41: Raptors  
UT-LN-42: Migratory Bird  
UT-LN-46: Utah Sensitive Species  
T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin

**UTU88052**

(UT0810-056)

T. 6 S., R. 22 E., Salt Lake

Secs. 28 and 29: All;

Sec. 30: SE;

Sec. 31: NE;

Sec. 33: N2, E2SW, SE.

2,160.00 Acres

Uintah County, Utah

Vernal Field Office

**STIPULATIONS**

- UTSO-S-01: Air Quality
- UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%
- UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)
- UTSO-S-96: TL - Greater Sage-Grouse Brood Rearing Nesting and Nesting
- UTSO-S-130: NSO/CSU/TL - Raptors

**NOTICES**

- UT-LN-34: Bald Eagle Habitat
- UT-LN-41: Raptors
- UT-LN-42: Migratory Bird
- UT-LN-46: Utah Sensitive Species
- UT-LN-86: Horseshoe Milkvetch (*Astragalus equisolensis*)
- T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin
- T&E-11: Uinta Basin Hookless Cactus

**UTU88053**

(UT0810-057)

T. 7 S., R. 22 E., Salt Lake

Sec. 3: SWNW, NWSW, S2S2;

Sec. 4: Lots 1-8, S2N2.

632.08 Acres

Uintah County, Utah

Vernal Field Office

**STIPULATIONS**

- UTSO-S-01: Air Quality
- UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%
- UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)
- UTSO-S-96: TL - Greater Sage-Grouse Brood Rearing Nesting and Nesting
- UTSO-S-130: NSO/CSU/TL - Raptors

**NOTICES**

- UT-LN-41: Raptors
- UT-LN-42: Migratory Bird
- UT-LN-46: Utah Sensitive Species
- UT-LN-86: Horseshoe Milkvetch (*Astragalus equisolensis*)
- T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin

T&E-11: Uinta Basin Hookless Cactus

**UTU88054**

(UT0510-036)

T. 8 S., R. 22 E., Salt Lake  
Sec. 3: Lots 1, 2, 7, 8.

121.13 Acres

Uintah County, Utah

Vernal Field Office

**STIPULATIONS**

UTSO-S-01: Air Quality  
UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%  
UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)  
UTSO-S-136: Drainage

**NOTICES**

UT-LN-16: Pronghorn Fawning Habitat  
UT-LN-41: Raptors  
UT-LN-42: Migratory Bird  
UT-LN-69: High Potential Paleontological Resources  
T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin

**UTU88055**

(UT0810-058)

T. 6 S., R. 23 E., Salt Lake  
Sec. 29: S2;  
Secs. 30 and 31: All.

1,374.98 Acres

Uintah County, Utah

Vernal Field Office

**STIPULATIONS**

UTSO-S-01: Air Quality  
UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%  
UTSO-S-53: NSO - Riparian, Floodplains, and Public Water Reserves  
UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)  
UTSO-S-96: TL - Greater Sage-Grouse Brood Rearing Nesting and Nesting  
UTSO-S-130: NSO/CSU/TL - Raptors

**NOTICES**

UT-LN-41: Raptors  
UT-LN-42: Migratory Bird  
UT-LN-46: Utah Sensitive Species  
T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin  
T&E-19: Clay Reed-Mustard

**UTU88056**

(UT0810-059)

T. 7 S., R. 23 E., Salt Lake

Secs. 7 and 8: All.

1,262.44 Acres

Uintah County, Utah

Vernal Field Office

**STIPULATIONS**

UTSO-S-01: Air Quality  
UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%  
UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)  
UTSO-S-96: TL - Greater Sage-Grouse Brood Rearing Nesting and Nesting  
UTSO-S-130: NSO/CSU/TL - Raptors

**NOTICES**

UT-LN-41: Raptors  
UT-LN-42: Migratory Bird  
UT-LN-46: Utah Sensitive Species  
T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin  
T&E-19: Clay Reed-Mustard

**UTU88057**

(UT0810-060)

T. 11 S., R. 23 E., Salt Lake

Sec. 30: All;

Sec. 31: N2NE, SENE.

725.68 Acres

Uintah County, Utah

Vernal Field Office

**STIPULATIONS**

UTSO-S-01: Air Quality  
UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%  
UTSO-S-53: NSO - Riparian, Floodplains, and Public Water Reserves  
UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)  
UTSO-S-96: TL - Greater Sage-Grouse Brood Rearing Nesting and Nesting

**NOTICES**

UT-LN-41: Raptors  
UT-LN-42: Migratory Bird  
UT-LN-46: Utah Sensitive Species  
UT-LN-88: Existing Unplugged Well.  
T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin  
T&E-19: Clay Reed-Mustard

## UINTAH SPECIAL MERIDIAN – ACQUIRED LANDS

### UTU88058 – 50% BLM Minerals

(UT0510-039)

T. 3 S., R. 1 W., Uintah Spec

Sec. 20: W2NW.

80.00 Acres

Duchesne County, Utah

Vernal Field Office

### STIPULATION

UTSO-S-01: Air Quality

UTSO-S-29: NSO - Fragile Soils/Slopes Greater Than 40%

UTSO-S-62: CSU - Fragile Soils/Slopes (21%- 40%)

### NOTICES

UT-LN-41: Raptors

UT-LN-42: Migratory Bird

T&E-03: Endangered Fish of the Upper Colorado River Drainage Basin

*Attachment 2*  
**Interdisciplinary Team Checklist**

## INTERDISCIPLINARY TEAM CHECKLIST

**Project Title:** August 2010 Competitive Oil and Gas Lease Sale

**NEPA Log Number:** DOI-BLM-UT-G010-2010-0284-DNA

**File/Serial Number:** None

**Project Leader:** Nate Packer/Margo Roberts

**DETERMINATION OF STAFF:**

NP = not present in the area impacted by the proposed or alternative actions

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

PI = present with potential for relevant impact that need to be analyzed in detail in the EA

NC = (DNAs only) actions and impacts not changed from those disclosed in the existing NEPA documents cited in Section D of the DNA form. The Rationale column may include NI and NP discussions.

Determi- nation	Resource	Rationale for Determination	Signature	Date
<b>RESOURCES AND ISSUES CONSIDERED (INCLUDES SUPPLEMENTAL AUTHORITIES APPENDIX 1 H-1790-1)</b>				
NC	Air Quality	The act of leasing the proposed parcels will not result in any impacts to air quality. Should the leases be issued and development be proposed, the impact of development on air quality would be Standard stipulations, mitigations, and controls apply to all parcels.	Stephanie Howard	5/4/2010
NC	Areas of Critical Environmental Concern	None of the ACECs designated in the Vernal RMP are impacted by leasing these parcels.	Jason West	5/24/2010
NC	BLM Natural Areas	None of the parcels offered in this lease sale are located on lands designated by the Vernal RMP as BLM Natural Areas/	Jason West	5/24/2010
NC	Cultural Resources	Parcel's #34; #35; #36; #52; #53; #54; #55; #56; #57; #58; #59; and #60 have limited potential for finding "eligible" sites within the unsurveyed portions of the proposed parcels, and due to the expected site type, size and their density of occurrence, it has been determined that reasonable development could occur on these proposed parcels without impact to "eligible" cultural properties making a recommendation of "no adverse effect to historic properties."  Parcel #39 has been under cultivation probably for an extended period of time yet the parcel is located between two parcels of Tribal land making the possibility of finding "eligible" cultural material probable. The cultivation may have removed the integrity of the sites, but there is still a possibility that "eligible" sites can be identified. A determination of "no adverse effect to historic properties" is being recommended pending an intensive cultural inventory. Section 106 was completed. "No Adverse Effect" determinations were sent by letter to the State Historic Preservation Office (SHPO) on March 16 and May 6, 2010. Concurrence letters were received from the SHPO's office on March 24 and May 28, 2010.	Kathie Davies	3/22/2010
NC	Environmental Justice	No minority or economically disadvantaged communities would be disproportionately affected by the proposed leasing.	Stephanie Howard	5/4/2010

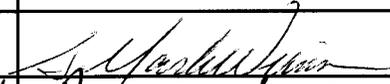
<b>Determination</b>	<b>Resource</b>	<b>Rationale for Determination</b>	<b>Signature</b>	<b>Date</b>
NC	Farmlands (Prime or Unique)	The analysis in the Vernal RMP is sufficient. No additional impacts are anticipated. No stipulations or lease notices will apply.	Stephanie Howard	5/4/2010
NC	Fish and Wildlife Excluding USFWS Designated Species	Based on the information provided Wildlife Lease Notices and Stipulations - Oil and Gas Leasing table, and inclusion of all appropriate lease notices and stipulations; the August 2010 sale of oil and gas lease parcels complies with the Vernal RMP.	Brandon McDonald Dan Emmett	3/4/2010 7/1/2010
NC	Floodplains	The Vernal RMP analysis for floodplains and is sufficient. Specific impacts would be determined during onsites if future permitting would occur. Parcel 35 involves floodplains. Stipulation UTSO-S-53 will apply to that parcel.	Stan Olmstead	5/24/2010
NC	Fuels/Fire Management	The Vernal RMP analysis for Fuels and fire suppression is sufficient. Specific impacts would be determined during onsites if future permitting would occur.	Steve Strong	6/9/2010
NC	Geology / Mineral Resources/Energy Production	The act of leasing parcels has been adequately addressed by the RMP for its effect on mineral resources and energy production. No additional impacts are anticipated.	Robin L Hansen	5/24/2010
NC	Greenhouse Gas Emissions	The act of leasing the proposed parcels will not result in any impacts to-to greenhouse gas emissions or climate change. Should the leases be issued and development be proposed, the impact of development on greenhouse gas emission rates and climate change would be analyzed on a project specific basis.	Stephanie Howard	5/4/2010
NC	Hydrologic Conditions (stormwater)	No alteration of water flow conditions or stormwater events would be caused by leasing. During the future permitting process specifics of surface water flow conditions would be analyzed.	Stan Olmstead	5/24/2010
NC	Invasive Plants/Noxious Weeds(EO 13112)	Weeds are present in the parcels. The analysis in the Vernal RMP is sufficient to disclose impacts to weeds. Surface disturbance activities will require a plan and pesticide use permit. No stipulations or lease notices apply. RMP tiers to the 2007 VEIS and calls for the control of invasive plants and noxious weeds.	Aaron Roe	5/24/2010
NC	Lands/Access	Right-of-way holders are present in the project areas. R/W holders would be notified by BLM upon site specific proposals. Class D roads identified on the County Transportation Map within the project areas may require a right-of-way be obtained by the county. Surface authorizations would need to be obtained from the surface managing agency upon site specific proposals.	Cindy McKee	6/8/2010
NC	Livestock Grazing	These parcels are within the following allotments: Badlands, Baeser Wash, Big Wash, Big Wash Draw, Castle Peak, Five Mile, Horseshoe Bend, Park Canyon, Olsen AMP, Perry, Walker Hollow, Water Canyon 2, Wells Draw, West Deadman, and Wildhorse Bench,. If any range improvement projects will be impacted by wells or associated infrastructure, wells can be moved 200 meters to avoid these impacts (Vernal RMP\ROD, Appendix A).  The following parcels have portions that exceed 40% slope and would need appropriate surface stipulations: 060, 059, 058, & 055. The allotments that these parcels are in have received and are planned for extensive oil	Marc Stavropoulos	5/5/2010

<b>Determi- nation</b>	<b>Resource</b>	<b>Rationale for Determination</b>	<b>Signature</b>	<b>Date</b>
		and gas development.		
NC	Migratory Birds	Migratory birds are present within all of the proposed parcels, therefore all the migratory bird lease notice has been attached to each lease.	Dan Emmett	7/1/2010
NC	Native American Religious Concerns	Certified consultation letters were sent to the following Tribes on February 3 and May 6, 2010: Ute Mountain Ute Tribe, Goshute Indian Tribe, White Mesa Ute Tribe, Laguna Pueblo Tribe, Southern Ute Tribe, Ute Indian Tribe, Santa Clara Pueblo Tribe, Hopi Tribe, Zia Pueblo Tribe, Navajo Nation, Northwestern Band of the Shoshone Tribe, and the Eastern Shoshone Tribe. One response letter was received on February 26, 2010 from the Pueblo of Laguna. The Pueblo of Laguna had no concerns. As of this date, no other responses or concerns pertaining to leasing of the preliminary parcels have been received. If any concerns are raised by the tribes, those concerns will be addressed. Consultation will be considered complete if tribal response presents no objections or if response is not received seven (7) days prior to the date of the proposed sale. Additional consultation will be conducted should site-specific use authorization requests for a lease be received.	Kathie Davies	6/1/2010
NC	Non-WSA Lands with Wilderness Characteristics	Parcel UT0810-054 is located within lands found to possess wilderness character (Desolation Canyon unit). This unit was not designated in the Vernal RMP as a BLM Natural Area to manage for wilderness characteristics and is considered to be available for leasing under RMP management decisions. The proposed parcel is cut by three vehicle routes, two of which have been improved since the 1999 inventory to access drilling activity on contiguous state land.	Jason West	5/24/2010
NC	Paleontology	The paleontological sensitivities are such that surveys will be required for all surface disturbing activities.	Robin L Hansen	5/24/2010
NC	Rangeland Health Standards	The Olsen AMP allotment is scheduled for Rangeland Health Assessments in 2010. The other allotments have had health assessments conducted and were meeting Utah Rangeland Health Standards and Guidelines at the time.	Marc Stavropoulos	5/5/2010
NC	Recreation	Developed recreation sites within the Vernal Field Office are closed to fluid mineral leasing. None of the parcels are located within developed recreation sites. None of the parcels are located within Special Recreation Management Areas (SRMA) that would require additional stipulations. All of the parcels are located in the Extensive Recreation Management Area (ERMA) which contains minimal recreational facilities and allows for dispersed recreational uses. Leasing activity will not result in adverse impacts to dispersed recreational activities.	Jason West	5/24/2010
NC	Socio-Economics	The Vernal RMP considered the impact of oil and gas leasing and development on Uinta Basin communities. The proposed leasing of the subject parcels falls within the scope of what was analyzed. No stipulations apply.	Stephanie Howard	5/4/2010
NC	Soils	The Vernal RMP analysis for soils is sufficient. Specific impacts would be determined during onsite if future permitting would occur. Stipulations (UTSO-S-29 and	Steve Strong	6/9/2010

Determination	Resource	Rationale for Determination	Signature	Date
		UTSO- S-62) will apply to all parcels due to slope and soil type as per the RMP.		
NC	Threatened, Endangered or Candidate Animal Species	Based on the information provided Wildlife Lease Notices and Stipulations - Oil and Gas Leasing table, and inclusion of all appropriate lease notices and stipulations; the August 2010 sale of oil and gas lease parcels complies with the Vernal RMP consultation (Biological Opinion Dated October 23, 2008). Listed Colorado River fish species will always have a "likely to adversely affect" determination for water depletion within the upper Colorado River Basin. A previous consultation has been completed for historic water sources (1993 Memorandum). New depletions resulting from development activities on these parcels will still require formal consultation. Listed wildlife species will not be affected by development activities on the proposed parcels. Federally listed fish: All parcels are anticipated to have water depletion but that will be addressed at the project level, therefore the lease notice for federally listed fish is not necessary for each lease.	Dan Emmett	7/1/2010
NC	Threatened, Endangered or Candidate Plant Species	Based on the information provided in the Botany Report, and inclusion of all appropriate lease notices and stipulations; the August 2010 sale of oil and gas lease parcels complies with the Vernal RMP consultation (Biological Opinion Dated October 23, 2008).	Aaron Roe	5/24/2010
NC	Vegetation, Excluding USFWS Designated Species	Utah Sensitive species: 052,053,035,056,058,060 (UT-LN-46) General Vegetation: RMP adequately covers vegetation	Aaron Roe	5/24/2010
NC	Visual Resources	Parcels 034, 036, 052, 054 and 060 are located on lands with VRM Class IV objectives. Parcels 035 and 053 are on lands with VRM Class III objectives. Parcels 056, 057, 058, and 059 contain both VRM Class III and Class IV objectives. Both of these VRM class objectives allow for surface disturbing activities and a moderate to dominate change to landscape features, color and texture. The use of standard mitigation measures to mitigate surface disturbance will allow for exploratory activity to meet VRM class objectives.	Jason West	5/24/2010
NC	Wastes (hazardous or solid)	The analysis in the Vernal RMP is sufficient. No hazardous or solid waste sites are known to be present. No hazardous or solid was sites are anticipated to occur as a result of leasing. No stipulations or lease notices apply.	Stephanie Howard	5/4/2010
NC	Waters of the U.S.	The Vernal RMP is sufficient for analysis of waters of the U.S. No negative impacts are anticipated. Energy development at the time of permitting would adequately analysis for impacts.	Stan Olmstead	5/24/2010
NC	Water Resources/Quality (surface/ground)	Surface: The Vernal RMP is sufficient for analysis. Any potential negative impacts would be considered during onsite inspection and the permitting process. Ground: Protection of Underground Storage Drinking Wells are reviewed at the APD level, Onshore Orders require adequate protection.	Stan Olmstead Robin Hansen	5/24/2010 5/24/2010
NC	Wetlands/Riparian Zones	The Vernal RMP is sufficient for analysis. Any potential negative impacts would be considered during onsite inspection and the permitting process. Leasing in its self would no cause negative impacts to riparian habitat. See	Stan Olmstead	5/24/2010

Determination	Resource	Rationale for Determination	Signature	Date
		Floodplain discussion above.		
NC	Wild and Scenic Rivers	None of the parcels being offered in this lease sale contain river segments designated by the Vernal RMP as suitable for inclusion in the National Wild and Scenic Rivers System.	Jason West	5/24/2010
NC	Wild Horses and Burros	Analysis within the Vernal RMP and ROD is sufficient in regards to leasing these parcels and WHB management. If 054 is leased and further developed within Hill Creek HA ( <i>previously HMA</i> ), resource issues would then be addressed through a site specific NEPA process.	Dusty Carpenter	05/14/10
NC	Wilderness/WSA	The Vernal Field Office does not contain designated wilderness areas and all WSAs are closed to new leasing activity per 43 CFR 3100.0-3 (2) (viii) and Interim Management Policy for Lands Under Wilderness Review (H-8550-1).	Jason West	5/24/2010
NC	Woodland / Forestry	Pinyon Juniper woodlands are present in UT0510-030, UT0510-031, UT0510-033, UT0510-034, UT0510-038, UT0810-052, UT0810-53, UT0810-059, and UT0810-060. Analysis in the Vernal RMP adequately covers proposed leases	David Palmer	5/25/2010

**FINAL REVIEW:**

Reviewer Title	Signature	Date	Comments
Environmental Coordinator		7/2/10	reviewed briefly
Authorized Officer		7/6/10	

*Attachment 3*  
**Staff Reports**

### Wildlife Report

Based on the information provided below in the Wildlife Lease Notices and Stipulations - Oil and Gas Leasing table, and inclusion of all appropriate lease notices and stipulations; the August 2010 sale of oil and gas lease parcels complies with the Vernal RMP consultation (Biological Opinion Dated October 23, 2008). Listed Colorado River fish species will always have a "likely to adversely affect" determination for water depletion within the upper Colorado River Basin. A previous consultation has been completed for historic water sources (1993 Memorandum). New depletions resulting from development activities on these parcels will still require formal consultation. Listed wildlife species will not be affected by development activities on the proposed parcels.

Resource	Status	No	Yes	Where – Lease Sale ID	Lease Notice or Stipulation to be added to the parcel	Comments
Mexican Spotted Owl	Threatened and Critical Habitat	X				
Black-footed Ferret	Endangered	X				
Canada Lynx	Threatened	X				
Bonytail Chub Colorado Pikeminnow Humpback Chub Razorback Sucker	Endangered and Critical Habitat		X	All Parcels.	T&E-03	Water depletions.
				UT0510-035	UTSO-S-53	Within 100 meters of riparian
Yellow-billed Cuckoo	Candidate	X				
Bald Eagle	Sensitive, Bird of Conservation Concern		X	UT0810-056	UTSO-S-130, UT-LN-41, UT-LN-34, and UT-LN-46	
				UT0510-035	UTSO-S-142 and UTSO-S-130, plus UT-LN-41, UT-LN-34, and UT-LN-46	There are 5 known BE roosts within 0.5 miles of parcel # 35 along the Green River Corridor.
Greater Sage Grouse – leks	Sensitive	X				

Resource	Status	No	Yes	Where – Lease Sale ID	Lease Notice or Stipulation to be added to the parcel	Comments
Greater Sage Grouse – nesting	Sensitive		X	UT0810-053, 054, 056, 057, 058, 059, & 060 and UT0510-034	UTSO-S-96	Portion of Parcel UT0510-034 is located within grouse brooding habitat; however, the nearest known, active, lek is located 20 miles north.
Greater Sage Grouse – wintering	Sensitive	X				
Long-Billed Curlew	Sensitive, Bird of Conservation Concern	X				
Northern Goshawk	Conservation Agreement Species	X				
Swainson’s Hawk	Sensitive		X	UT0510-039	UT-LN-41	
Ferruginous Hawk	Sensitive, Bird of Conservation Concern		X	UT0810-059	UTSO-S-130	
				UT0510-035, 036, & 039	UT-LN-41	
Burrowing Owl	Sensitive, Bird of Conservation Concern		X	UT0510-035, 036, & 039	UT-LN-41	
Short-eared Owl	Sensitive		X	UT0510-039	UT-LN-41	
Peregrine Falcon	Sensitive, Bird of Conservation Concern	X				
Mountain Plover	Sensitive, Bird of Conservation Concern	X				
Golden eagle	Sensitive, Bird of Conservation Concern		X	UT0810-059	UTSO-S-130	Known nests
				UT0510-034, 035, 036 & 039	UT-LN-41	Nesting habitat
Prairie Falcon	Sensitive, Bird of Conservation Concern		X	UT0810-059	UTSO-S-130	
				UT0510-034, 035, 036 & 039	UT-LN-41	

Resource	Status	No	Yes	Where – Lease Sale ID	Lease Notice or Stipulation to be added to the parcel	Comments
Snowy Plover	Bird of Conservation Concern	X				
Flammulated Owl	Bird of Conservation Concern	X				
Lewis' Woodpecker	Bird of Conservation Concern		X	UT0510-035 & 039	UT-LN-42	Duchesne and Green River corridors
Willow Flycatcher	Bird of Conservation Concern	X				
Gray Vireo	Bird of Conservation Concern		X	UT0810-052 and UT0510-034	UT-LN-42	PJ Habitat
Pinyon Jay	Bird of Conservation Concern		X	UT0810-052 & 060 and UT0510- 034	UT-LN-42	PJ Habitat
Juniper Titmouse	Bird of Conservation Concern		X	UT0810-052 and UT0510-034	UT-LN-42	PJ Habitat
Veery	Bird of Conservation Concern		X	UT0810-052	UT-LN-42	
Grasshopper Sparrow	Bird of Conservation Concern		X	UT0510-034, 035, 036 & 039	UT-LN-42	
Brewer's Sparrow	Bird of Conservation Concern		X	UT0810-052 & 060 and UT0510- 034, 035, 036, & 039	UT-LN-42	PJ Habitat
Black-capped Rosy finch	Bird of Conservation Concern	X				
Cassin's Finch	Bird of Conservation Concern	X				
White-Tailed Prairie-Dog	Sensitive	X				
Townsend's Big-Eared Bat, Big Free-tailed Bat, Spotted Bat, Fringed Myotis	Sensitive		X	UT0810- 052 through 60	UT-LN-46	
Bluehead Sucker Flannelmouth Sucker Roundtail Chub Colorado River Cutthroat Trout	Conservation Agreement Species		X	UT0810-052 through 60	T&E-03	Green River corridor
				UT0510-034, 035, 036 & 039	UT-LN-105	Water Depletion

Resource	Status	No	Yes	Where – Lease Sale ID	Lease Notice or Stipulation to be added to the parcel	Comments
				UT0510-035	UTSO-S-53	Within 100 meters of riparian
Smooth Greensnake Corn Snake	Sensitive	X				
Western Toad	Sensitive	X				
Moose – winter	-	X				
Elk – crucial winter	-		X	UT0810-053 and 034	UTSO-S-103	
Elk – calving	-		X	UTU0510-034	UTSO-S-104	
Mule deer – crucial winter	-		X	UT0810-053	UTSO-S-103 and 106	
Mule deer – fawning	-		X	UT0810-053 and UT0510-035	UTSO-S-104	
Antelope – winter	-	X				
Antelope – fawning	-	X				
RM Bighorn – winter	-	X				
RM Bighorn – lambing	-	X				
D Bighorn – winter	-	X				
D Bighorn – lambing	-	X				
Raptor – nests	-		X	UT0810-056, 057 058 & 059	UTSO-S-130	
				All parcels	UT-LN-41	
Raptor – crucial cliff nesting complexes	-	X				
Migratory birds (that are BLM Sensitive)	-		X	UT0810-052 through 060 and UT0510-034, 035, 036 & 039	UT-LN-42	
Waterfowl	-	X				
Natural springs	-	X				
Perennial streams	-		X	UT0510-035	UTSO-S-53	Within 100 meters of riparian

## Botany Report

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SPECIAL STATUS PLANT SPECIES REPORT

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MAY 2010 LEASE SALE  
UT0510-34

**LOCATION:** Township 10 South, Range 15 East; Township 10 South, Range 16 East

**SITE DESCRIPTION:** Substrate underlying the parcels consists of alluvium, landslide deposits, sandstone and limestone faces of the Green River Formation, and Lower Member of the Uinta Formation. Vegetation types within the parcel include Badland / Rock Outcrops, Black Sagebrush, Pinyon-Juniper, and Wyoming Big Sagebrush communities.

**DISCUSSION:** Having examined the records of occurrence within the BLM GIS data layers and the potential habitat polygons for Uinta Basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) being developed by the US Fish and Wildlife Service (USFWS) there is no potential or suitable habitat for any candidate, federally listed, and Bureau sensitive plant species habitat for any within the parcel. Of these parcels the closest to sensitive plant species 034. It is located 38 feet to the northwest of the Uinta Basin hookless cactus polygon and the closest special status plant is an individual or population of Shrubby reed-mustard (*Schoenocrambe suffrutescens*) 2.2 miles to the south.

**SPECIAL STATUS PLANT OCCURRENCE IN VFO**

SPECIES	S T A T U S	LOCATION / HABITAT (county—location, geologic formation, plant community, elevation)	OCCURRENCE OR OCCURRENCE POTENTIAL	ELIMINATED FROM ANALYSIS?
<i>Arabis vivariensis</i> Park rock cress	S	Uintah—Diamond Mt, Diamond Gulch Weber Fm sandstone & limestone, MDS or PJ, 5000'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Astragalus equisolensis</i> Horseshoe milkvetch	0	Uintah—Green River Horseshoe Bend, Duchesne River Fm sand & silty sand, MDS, 4790'-5185'	None. Habitat for this species does not occur in Project Area	Yes
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah—Asphalt Ridge Mowry, Dakota & Wasatch Fms Lapoint & Dry Gulch Mbrs, Duchesne Fm MDS or PJ, 5240'-5800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, ne Uintah—east Uinta Mts canyons Crowe & Allen Cyns, Diamond Mt WMA PJS, MDS or riparian, 5500'-6200'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cleomella p. var. goodrichii</i> Goodrich cleomella	S	Uintah—Diamond Mt Morrison, Mancos, Tropic Fms heavy clay & shale slopes SDS, 4000'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Erigeron untermannii</i> Untermann fleabane	S	Duchesne, Uintah—West Tavaputs Plateau Green River, Uinta Fm ridges, dry calcareous shales & sandstones PJ or MB, 7000'-7800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Habenaria zothecina</i> Alcove bog-orchid	S	Uintah—"hanging garden" oases Navajo or Nugget Sandstone Fm MDS, PJS, or oak brush, 4360'-8690'	None. Habitat for this species does not occur in Project Area	Yes
<i>Hymenoxys lapidicola</i> Rock bitterweed	S	Uintah—Blue Mt, Cliff Ridge Weber Fm, sandy ledges & crevices PJ or ponderosa-manzanita, 5700'-8100'	None. Habitat for this species does not occur in Project Area	Yes
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	TRIBAL—Duchesne West Tavaputs Plateau, Indian Canyon Uinta Fm, white shale outcrops & ridges barren inclusions in PJ, 6200'-6500'	None. Habitat for this species does not occur in Project Area	Yes
<i>Lepidium huberi</i> Huber pepperplant	S	Uintah—foothills, Ashley Crk, Dry Fork Chinle, Park City, Weber Fm eroding cliffs, alluvium, sandy or shaly bluffs black sage or MB, 5000'-6400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Mentzelia goodrichii</i> Goodrich blazingstar	S	Duchesne—Willow & Argyle Canyons Green River Fm, steep escarpments & cliffs white calcareous shale, MB, 8100'-8800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon acaulis</i> Stemless beardtongue	S	Daggett—Browns Park Fm ashy, gravelly or sandy ridges & knolls sagebrush-desert grass or PJ, 5840'-7285'	None. Habitat for this species does not occur in Project	Yes

			Area	
<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett—Browns Park Fm Green River Fm sandy / shaly bluffs, slopes juniper, thistle, buckwheat, serviceberry 5500'-6400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon goodrichii</i> Goodrich beardtongue	S	Duchesne, Uintah— Lapoint, Tridell, Whiterocks Duchesne River Fm; clay badlands MDS, shadscale, PJ or MB, 5590'-6215'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon grahamii</i> Graham beardtongue	S	Uintah, Duchesne— oil shale outcrops throughout VFO Evacuation Creek, lower Parachute Mbrs oil shale or white shale knolls & talus semi-barren MDS or PJ, 4600'-6700'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon s. var. albifluvis</i> White River beardtongue	C	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah—canyon rims & steep slopes contact zone, Uinta-Green River Fms MDS, 5000'-5650'	None. Habitat for this species does not occur in Project Area	Yes
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, Uintah— Big Pack Mt, Wrinkles Rd, Hill Creek Basin Green River Fm, calcareous shale MDS, PJS or MB, 5400'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne—Pariette Wash south of Myton Uinta Fm, Wagonhound Mbr, alkaline clay shadscale, mat-saltbush, greasewood comm 4700'-5400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, Uintah—widespread in VFO alluvial benches Ouray to Carbon Co. line MDS, 4700'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Spiranthes diluvialis</i> Ute ladies'-tresses	T	Daggett, Duchesne, Uintah— unconsolidated alluvium riparian corridors, wetlands, wet meadows 4400'-6810'	None. Habitat for this species does not occur in Project Area	Yes
<i>Thelesperma caespitosum</i> Uinta greenthread	S	Duchesne— West Tavaputs Plateau, north slope Uintas Bishop Fm, white shale benches, ridgecrests cushion plant comm above PJS & MB 5000'-9000'	None. Habitat for this species does not occur in Project Area	Yes

STATUS: E = Federally Endangered  
T = Federally Threatened  
C = Federal Candidate  
S = Bureau-sensitive  
0 = nonstatus, removed from status, potential status

HABITAT: MB = Montane Brush  
MDS = Mixed Desert Shrub  
PJ = Pinyon-Juniper  
PJS = Pinyon-Juniper-Sagebrush  
SDS = Salt Desert Scrub

OCCURRENCE: None = populations, potential or suitable habitat for this species unknown in Project Area.  
Yes = There are no known occurrences in Project Area; however, habitat does occur here.

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SPECIAL STATUS PLANT SPECIES REPORT

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MAY 2010 LEASE SALE  
UT0510-35

**LOCATION:** Sections 25 and 26 Township 6 South, Range 21 East

**SITE DESCRIPTION:** Substrate underlying the parcels consists of Brennan Basin Member of the Duchesne River Formation, Piedmont alluvium, and mixed alluvium and colluvium. Vegetation types within the parcel include Desert Shrub and Wyoming Big Sagebrush communities.

**DISCUSSION:** Having examined the records of occurrence within the BLM GIS data layers and the potential habitat polygons for Uinta Basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) being developed by the US Fish and Wildlife Service (USFWS), there exists suitable habitat and known populations of Horseshoe milkvetch (*Astragalus equisolensis*). The parcel is not located within potential or suitable habitat for any other current candidate, federally listed, or Bureau-sensitive plant species.

**SPECIAL STATUS PLANT OCCURRENCE IN VFO**

SPECIES	S T A T U S	LOCATION / HABITAT (county—location, geologic formation, plant community, elevation)	OCCURRENCE OR OCCURRENCE POTENTIAL	ELIMINATED FROM ANALYSIS?
<i>Arabis vivariensis</i> Park rock cress	S	Uintah—Diamond Mt, Diamond Gulch Weber Fm sandstone & limestone, MDS or PJ, 5000'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Astragalus equisolensis</i> Horseshoe milkvetch	0	Uintah—Green River Horseshoe Bend, Duchesne River Fm sand & silty sand, MDS, 4790'-5185'	Habitat and known populations of this species are found within the parcel.	NO
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah—Asphalt Ridge Mowry, Dakota & Wasatch Fms Lapoint & Dry Gulch Mbrs, Duchesne Fm MDS or PJ, 5240'-5800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, ne Uintah—east Uinta Mts canyons Crowe & Allen Cyns, Diamond Mt WMA PJS, MDS or riparian, 5500'-6200'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cleomella p. var. goodrichii</i> Goodrich cleomella	S	Uintah—Diamond Mt Morrison, Mancos, Tropic Fms heavy clay & shale slopes SDS, 4000'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Erigeron untermannii</i> Untermann fleabane	S	Duchesne, Uintah—West Tavaputs Plateau Green River, Uinta Fm ridges, dry calcareous shales & sandstones PJ or MB, 7000'-7800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Habenaria zothecina</i> Alcove bog-orchid	S	Uintah—"hanging garden" oases Navajo or Nugget Sandstone Fm MDS, PJS, or oak brush, 4360'-8690'	None. Habitat for this species does not occur in Project Area	Yes
<i>Hymenoxys lapidicola</i> Rock bitterweed	S	Uintah—Blue Mt, Cliff Ridge Weber Fm, sandy ledges & crevices PJ or ponderosa-manzanita, 5700'-8100'	None. Habitat for this species does not occur in Project Area	Yes
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	TRIBAL—Duchesne West Tavaputs Plateau, Indian Canyon Uinta Fm, white shale outcrops & ridges barren inclusions in PJ, 6200'-6500'	None. Habitat for this species does not occur in Project Area	Yes
<i>Lepidium huberi</i> Huber pepperplant	S	Uintah—foothills, Ashley Crk, Dry Fork Chinle, Park City, Weber Fm eroding cliffs, alluvium, sandy or shaly bluffs black sage or MB, 5000'-6400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Mentzelia goodrichii</i> Goodrich blazingstar	S	Duchesne—Willow & Argyle Canyons Green River Fm, steep escarpments & cliffs white calcareous shale, MB, 8100'-8800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon acaulis</i> Stemless beardtongue	S	Daggett—Browns Park Fm ashy, gravelly or sandy ridges & knolls sagebrush-desert grass or PJ, 5840'-7285'	None. Habitat for this species does not occur in Project	Yes

			Area	
<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett—Browns Park Fm Green River Fm sandy / shaly bluffs, slopes juniper, thistle, buckwheat, serviceberry 5500'-6400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon goodrichii</i> Goodrich beardtongue	S	Duchesne, Uintah— Lapoint, Tridell, Whiterocks Duchesne River Fm; clay badlands MDS, shadscale, PJ or MB, 5590'-6215'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon grahamii</i> Graham beardtongue	S	Uintah, Duchesne— oil shale outcrops throughout VFO Evacuation Creek, lower Parachute Mbrs oil shale or white shale knolls & talus semi-barren MDS or PJ, 4600'-6700'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon s. var. albifluvis</i> White River beardtongue	C	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah—canyon rims & steep slopes contact zone, Uinta-Green River Fms MDS, 5000'-5650'	None. Habitat for this species does not occur in Project Area	Yes
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, Uintah— Big Pack Mt, Wrinkles Rd, Hill Creek Basin Green River Fm, calcareous shale MDS, PJS or MB, 5400'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne—Pariette Wash south of Myton Uinta Fm, Wagonhound Mbr, alkaline clay shadscale, mat-saltbush, greasewood comm 4700'-5400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, Uintah—widespread in VFO alluvial benches Ouray to Carbon Co. line MDS, 4700'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Spiranthes diluvialis</i> Ute ladies'-tresses	T	Daggett, Duchesne, Uintah— unconsolidated alluvium riparian corridors, wetlands, wet meadows 4400'-6810'	None. Habitat for this species does not occur in Project Area	Yes
<i>Thelesperma caespitosum</i> Uinta greenthread	S	Duchesne— West Tavaputs Plateau, north slope Uintas Bishop Fm, white shale benches, ridgecrests cushion plant comm above PJS & MB 5000'-9000'	None. Habitat for this species does not occur in Project Area	Yes

STATUS: E = Federally Endangered  
T = Federally Threatened  
C = Federal Candidate  
S = Bureau-sensitive  
0 = nonstatus, removed from status, potential status

HABITAT: MB = Montane Brush  
MDS = Mixed Desert Shrub  
PJ = Pinyon-Juniper  
PJS = Pinyon-Juniper-Sagebrush  
SDS = Salt Desert Scrub

OCCURRENCE: None = populations, potential or suitable habitat for this species unknown in Project Area.  
Yes = There are no known occurrences in Project Area; however, habitat does occur here.

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SPECIAL STATUS PLANT SPECIES REPORT

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MAY 2010 LEASE SALE  
UT0510-36

**LOCATION:** Sections 25 and 26 Township 6 South, Range 21 East

**SITE DESCRIPTION:** Substrate underlying the parcels consists of Brennan Basin Member of the Duchesne River Formation and Member C of the Uinta Formation. Vegetation type within the parcel is a Desert Shrub community.

**DISCUSSION:** Having examined the records of occurrence within the BLM GIS data layers and the potential habitat polygons for Uinta Basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) being developed by the US Fish and Wildlife Service (USFWS), the parcel is not located within potential or suitable habitat for any current candidate, federally listed, or Bureau-sensitive plant species. Additionally, the parcel is located 3.8 miles to the northwest of the Uinta Basin hookless cactus potential habitat polygon and the nearest known special status plant is an individual or population of Uinta Basin hookless cactus 5.3 miles to the southeast.

**SPECIAL STATUS PLANT OCCURRENCE IN VFO**

SPECIES	S T A T U S	LOCATION / HABITAT (county—location, geologic formation, plant community, elevation)	OCCURRENCE OR OCCURRENCE POTENTIAL	ELIMINATED FROM ANALYSIS?
<i>Arabis vivariensis</i> Park rock cress	S	Uintah—Diamond Mt, Diamond Gulch Weber Fm sandstone & limestone, MDS or PJ, 5000'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Astragalus equisolensis</i> Horseshoe milkvetch	0	Uintah—Green River Horseshoe Bend, Duchesne River Fm sand & silty sand, MDS, 4790'-5185'	None. Habitat for this species does not occur in Project Area	Yes
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah—Asphalt Ridge Mowry, Dakota & Wasatch Fms Lapoint & Dry Gulch Mbrs, Duchesne Fm MDS or PJ, 5240'-5800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, ne Uintah—east Uinta Mts canyons Crowe & Allen Cyns, Diamond Mt WMA PJS, MDS or riparian, 5500'-6200'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cleomella p. var. goodrichii</i> Goodrich cleomella	S	Uintah—Diamond Mt Morrison, Mancos, Tropic Fms heavy clay & shale slopes SDS, 4000'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Erigeron untermannii</i> Untermann fleabane	S	Duchesne, Uintah—West Tavaputs Plateau Green River, Uinta Fm ridges, dry calcareous shales & sandstones PJ or MB, 7000'-7800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Habenaria zothecina</i> Alcove bog-orchid	S	Uintah—"hanging garden" oases Navajo or Nugget Sandstone Fm MDS, PJS, or oak brush, 4360'-8690'	None. Habitat for this species does not occur in Project Area	Yes
<i>Hymenoxys lapidicola</i> Rock bitterweed	S	Uintah—Blue Mt, Cliff Ridge Weber Fm, sandy ledges & crevices PJ or ponderosa-manzanita, 5700'-8100'	None. Habitat for this species does not occur in Project Area	Yes
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	TRIBAL—Duchesne West Tavaputs Plateau, Indian Canyon Uinta Fm, white shale outcrops & ridges barren inclusions in PJ, 6200'-6500'	None. Habitat for this species does not occur in Project Area	Yes
<i>Lepidium huberi</i> Huber pepperplant	S	Uintah—foothills, Ashley Crk, Dry Fork Chinle, Park City, Weber Fm eroding cliffs, alluvium, sandy or shaly bluffs black sage or MB, 5000'-6400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Mentzelia goodrichii</i> Goodrich blazingstar	S	Duchesne—Willow & Argyle Canyons Green River Fm, steep escarpments & cliffs white calcareous shale, MB, 8100'-8800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon acaulis</i> Stemless beardtongue	S	Daggett—Browns Park Fm ashy, gravelly or sandy ridges & knolls sagebrush-desert grass or PJ, 5840'-7285'	None. Habitat for this species does not occur in Project	Yes

			Area	
<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett—Browns Park Fm Green River Fm sandy / shaly bluffs, slopes juniper, thistle, buckwheat, serviceberry 5500'-6400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon goodrichii</i> Goodrich beardtongue	S	Duchesne, Uintah— Lapoint, Tridell, Whiterocks Duchesne River Fm; clay badlands MDS, shadscale, PJ or MB, 5590'-6215'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon grahamii</i> Graham beardtongue	S	Uintah, Duchesne— oil shale outcrops throughout VFO Evacuation Creek, lower Parachute Mbrs oil shale or white shale knolls & talus semi-barren MDS or PJ, 4600'-6700'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon s. var. albifluvis</i> White River beardtongue	C	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah—canyon rims & steep slopes contact zone, Uinta-Green River Fms MDS, 5000'-5650'	None. Habitat for this species does not occur in Project Area	Yes
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, Uintah— Big Pack Mt, Wrinkles Rd, Hill Creek Basin Green River Fm, calcareous shale MDS, PJS or MB, 5400'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne—Pariette Wash south of Myton Uinta Fm, Wagonhound Mbr, alkaline clay shadscale, mat-saltbush, greasewood comm 4700'-5400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, Uintah—widespread in VFO alluvial benches Ouray to Carbon Co. line MDS, 4700'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Spiranthes diluvialis</i> Ute ladies'-tresses	T	Daggett, Duchesne, Uintah— unconsolidated alluvium riparian corridors, wetlands, wet meadows 4400'-6810'	None. Habitat for this species does not occur in Project Area	Yes
<i>Thelesperma caespitosum</i> Uinta greenthread	S	Duchesne— West Tavaputs Plateau, north slope Uintas Bishop Fm, white shale benches, ridgecrests cushion plant comm above PJS & MB 5000'-9000'	None. Habitat for this species does not occur in Project Area	Yes

STATUS: E = Federally Endangered  
T = Federally Threatened  
C = Federal Candidate  
S = Bureau-sensitive  
0 = nonstatus, removed from status, potential status

HABITAT: MB = Montane Brush  
MDS = Mixed Desert Shrub  
PJ = Pinyon-Juniper  
PJS = Pinyon-Juniper-Sagebrush  
SDS = Salt Desert Scrub

OCCURRENCE: None = populations, potential or suitable habitat for this species unknown in Project Area.  
Yes = There are no known occurrences in Project Area; however, habitat does occur here.

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SPECIAL STATUS PLANT SPECIES REPORT

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MAY 2010 LEASE SALE

UT0510-39

**LOCATION:** Sections 20, Township 3 South, Range 1 West

**DISCUSSION:** Having examined the records of occurrence within the BLM GIS data layers and the potential habitat polygons for Uinta Basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) being developed by the US Fish and Wildlife Service (USFWS), the parcel is not located within potential or suitable habitat for any other current candidate, federally listed, or Bureau-sensitive plant species. The parcel is located 2.4 miles to the northwest of the potential habitat polygon for *Sclerocactus* sp. Additionally, the nearest special status plant is an individual or population of Pariette cactus 3.6 miles to the southeast.

**SPECIAL STATUS PLANT OCCURRENCE IN VFO**

SPECIES	S T A T U S	LOCATION / HABITAT (county—location, geologic formation, plant community, elevation)	OCCURRENCE OR OCCURRENCE POTENTIAL	ELIMINATED FROM ANALYSIS?
<i>Arabis vivariensis</i> Park rock cress	S	Uintah—Diamond Mt, Diamond Gulch Weber Fm sandstone & limestone, MDS or PJ, 5000'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Astragalus equisolensis</i> Horseshoe milkvetch	0	Uintah—Green River Horseshoe Bend, Duchesne River Fm sand & silty sand, MDS, 4790'-5185'	None. Habitat for this species does not occur in Project Area	Yes
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah—Asphalt Ridge Mowry, Dakota & Wasatch Fms Lapoint & Dry Gulch Mbrs, Duchesne Fm MDS or PJ, 5240'-5800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, ne Uintah—east Uinta Mts canyons Crowe & Allen Cyns, Diamond Mt WMA PJS, MDS or riparian, 5500'-6200'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cleomella p. var. goodrichii</i> Goodrich cleomella	S	Uintah—Diamond Mt Morrison, Mancos, Tropic Fms heavy clay & shale slopes SDS, 4000'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Erigeron untermannii</i> Untermann fleabane	S	Duchesne, Uintah—West Tavaputs Plateau Green River, Uinta Fm ridges, dry calcareous shales & sandstones PJ or MB, 7000'-7800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Habenaria zothecina</i> Alcove bog-orchid	S	Uintah—"hanging garden" oases Navajo or Nugget Sandstone Fm MDS, PJS, or oak brush, 4360'-8690'	None. Habitat for this species does not occur in Project Area	Yes
<i>Hymenoxys lapidicola</i> Rock bitterweed	S	Uintah—Blue Mt, Cliff Ridge Weber Fm, sandy ledges & crevices PJ or ponderosa-manzanita, 5700'-8100'	None. Habitat for this species does not occur in Project Area	Yes
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	TRIBAL—Duchesne West Tavaputs Plateau, Indian Canyon Uinta Fm, white shale outcrops & ridges barren inclusions in PJ, 6200'-6500'	None. Habitat for this species does not occur in Project Area	Yes
<i>Lepidium huberi</i> Huber pepperplant	S	Uintah—foothills, Ashley Crk, Dry Fork Chinle, Park City, Weber Fm eroding cliffs, alluvium, sandy or shaly bluffs black sage or MB, 5000'-6400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Mentzelia goodrichii</i> Goodrich blazingstar	S	Duchesne—Willow & Argyle Canyons Green River Fm, steep escarpments & cliffs white calcareous shale, MB, 8100'-8800'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon acaulis</i> Stemless beardtongue	S	Daggett—Browns Park Fm ashy, gravelly or sandy ridges & knolls sagebrush-desert grass or PJ, 5840'-7285'	None. Habitat for this species does not occur in Project	Yes

			Area	
<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett—Browns Park Fm Green River Fm sandy / shaly bluffs, slopes juniper, thistle, buckwheat, serviceberry 5500'-6400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon goodrichii</i> Goodrich beardtongue	S	Duchesne, Uintah— Lapoint, Tridell, Whiterocks Duchesne River Fm; clay badlands MDS, shadscale, PJ or MB, 5590'-6215'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon grahamii</i> Graham beardtongue	S	Uintah, Duchesne— oil shale outcrops throughout VFO Evacuation Creek, lower Parachute Mbrs oil shale or white shale knolls & talus semi-barren MDS or PJ, 4600'-6700'	None. Habitat for this species does not occur in Project Area	Yes
<i>Penstemon s. var. albifluvis</i> White River beardtongue	C	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah—canyon rims & steep slopes contact zone, Uinta-Green River Fms MDS, 5000'-5650'	None. Habitat for this species does not occur in Project Area	Yes
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, Uintah— Big Pack Mt, Wrinkles Rd, Hill Creek Basin Green River Fm, calcareous shale MDS, PJS or MB, 5400'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne—Pariette Wash south of Myton Uinta Fm, Wagonhound Mbr, alkaline clay shadscale, mat-saltbush, greasewood comm 4700'-5400'	None. Habitat for this species does not occur in Project Area	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, Uintah—widespread in VFO alluvial benches Ouray to Carbon Co. line MDS, 4700'-6000'	None. Habitat for this species does not occur in Project Area	Yes
<i>Spiranthes diluvialis</i> Ute ladies'-tresses	T	Daggett, Duchesne, Uintah— unconsolidated alluvium riparian corridors, wetlands, wet meadows 4400'-6810'	None. Habitat for this species does not occur in Project Area	Yes
<i>Thelesperma caespitosum</i> Uinta greenthread	S	Duchesne— West Tavaputs Plateau, north slope Uintas Bishop Fm, white shale benches, ridgecrests cushion plant comm above PJS & MB 5000'-9000'	None. Habitat for this species does not occur in Project Area	Yes

STATUS: E = Federally Endangered  
T = Federally Threatened  
C = Federal Candidate  
S = Bureau-sensitive  
0 = nonstatus, removed from status, potential status

HABITAT: MB = Montane Brush  
MDS = Mixed Desert Shrub  
PJ = Pinyon-Juniper  
PJS = Pinyon-Juniper-Sagebrush  
SDS = Salt Desert Scrub

OCCURRENCE: None = populations, potential or suitable habitat for this species unknown in Project Area.  
Yes = There are no known occurrences in Project Area; however, habitat does occur here.

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SPECIAL STATUS PLANT SPECIES REPORT

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AUGUST 2010 LEASE SALE:

PARCEL UT0810-052

**LOCATION:** Section 35, Township 3 South, Range 19 East

**Project Description:** The BLM proposes to include parcel 053 in the August 2010 oil and gas lease sale.

**SITE DESCRIPTION:** Substrate underling the proposed project belongs to the Brennan Basin Member of the Duchesne River Formation, Frontier Sandstone, and Mancos Shale. A basin big sagebrush, mountain big sagebrush, and pinyon-juniper community dominates the vegetation in the vicinity of the parcel.

**DISCUSSION:** Having examined the records of occurrence within the the BLM GIS data layers, and the potential habitat polygons for Uinta Basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) being developed by the US Fish and Wildlife Service, the parcel is entirely located within potential habitat for Uinta Basin hookless cactus. The nearest known special status plant is an individual or population of shrubby reed-mustard (*Schoenocrambe suffrutescens*) located approximately 1.4 miles to the southeast of the parcel. With the exception of Uinta Basin hookless cactus, the parcel is not found within potential or suitable habitat for any other candidate, federally listed, and Bureau sensitive plant species.

**SPECIAL STATUS PLANT OCCURRENCE IN VFO**

SPECIES	S T A T U S	LOCATION / HABITAT (county—location, geologic formation, plant community, elevation)	OCCURRENCE OR OCCURRENCE POTENTIAL	ELIMINATED FROM ANALYSIS?
<i>Arabis vivariensis</i> Park rock cress	S	Uintah—Diamond Mt, Diamond Gulch Weber Fm sandstone & limestone, MDS or PJ, 5000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus equisolensis</i> Horseshoe milkvetch	0	Uintah—Green River Horseshoe Bend, Duchesne River Fm sand & silty sand, MDS, 4790'-5185'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah—Asphalt Ridge Mowry, Dakota & Wasatch Fms Lapoint & Dry Gulch Mbrs, Duchesne Fm MDS or PJ, 5240'-5800'	None. Habitat for this species does occur in Project Area	Yes
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, ne Uintah—east Uinta Mts canyons Crowe & Allen Cyns, Diamond Mt WMA PJS, MDS or riparian, 5500'-6200'	None. Habitat for this species does occur in Project Area	Yes
<i>Cleomella p. var. goodrichii</i> Goodrich cleomella	S	Uintah—Diamond Mt Morrison, Mancos, Tropic Fms heavy clay & shale slopes SDS, 4000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Erigeron untermannii</i> Untermann fleabane	S	Duchesne, Uintah—West Tavaputs Plateau Green River, Uinta Fm ridges, dry calcareous shales & sandstones PJ or MB, 7000'-7800'	None. Habitat for this species does occur in Project Area	Yes
<i>Habenaria zothecina</i> Alcove bog-orchid	S	Uintah—"hanging garden" oases Navajo or Nugget Sandstone Fm MDS, PJS, or oak brush, 4360'-8690'	None. Habitat for this species does occur in Project Area	Yes
<i>Hymenoxys lapidicola</i> Rock bitterweed	S	Uintah—Blue Mt, Cliff Ridge Weber Fm, sandy ledges & crevices PJ or ponderosa-manzanita, 5700'-8100'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	TRIBAL—Duchesne West Tavaputs Plateau, Indian Canyon Uinta Fm, white shale outcrops & ridges barren inclusions in PJ, 6200'-6500'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium huberi</i> Huber pepperplant	S	Uintah—foothills, Ashley Crk, Dry Fork Chinle, Park City, Weber Fm eroding cliffs, alluvium, sandy or shaly bluffs black sage or MB, 5000'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Mentzelia goodrichii</i> Goodrich blazingstar	S	Duchesne—Willow & Argyle Canyons Green River Fm, steep escarpments & cliffs white calcareous shale, MB, 8100'-8800'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon acaulis</i> Stemless beardtongue	S	Daggett—Browns Park Fm ashy, gravelly or sandy ridges & knolls sagebrush-desert grass or PJ, 5840'-7285'	None. Habitat for this species does occur in Project	Yes

			Area	
<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett—Browns Park Fm Green River Fm sandy / shaly bluffs, slopes juniper, thistle, buckwheat, serviceberry 5500'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon goodrichii</i> Goodrich beardtongue	S	Duchesne, Uintah— Lapoint, Tridell, Whiterocks Duchesne River Fm; clay badlands MDS, shadscale, PJ or MB, 5590'-6215'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon grahamii</i> Graham beardtongue	S	Uintah, Duchesne— oil shale outcrops throughout VFO Evacuation Creek, lower Parachute Mbrs oil shale or white shale knolls & talus semi-barren MDS or PJ, 4600'-6700'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon s. var. albifluvis</i> White River beardtongue	C	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah—canyon rims & steep slopes contact zone, Uinta-Green River Fms MDS, 5000'-5650'	None. Habitat for this species does occur in Project Area	Yes
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, Uintah— Big Pack Mt, Wrinkles Rd, Hill Creek Basin Green River Fm, calcareous shale MDS, PJS or MB, 5400'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne—Pariette Wash south of Myton Uinta Fm, Wagonhound Mbr, alkaline clay shadscale, mat-saltbush, greasewood comm 4700'-5400'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, Uintah—widespread in VFO alluvial benches Ouray to Carbon Co. line MDS, 4700'-6000'	The parcel is located entirely within designated potential habitat for the species.	NO
<i>Spiranthes diluvialis</i> Ute ladies'-tresses	T	Daggett, Duchesne, Uintah— unconsolidated alluvium riparian corridors, wetlands, wet meadows 4400'-6810'	None. Habitat for this species does occur in Project Area	Yes
<i>Thelesperma caespitosum</i> Uinta greenthread	S	Duchesne— West Tavaputs Plateau, north slope Uintas Bishop Fm, white shale benches, ridgecrests cushion plant comm above PJS & MB 5000'-9000'	None. Habitat for this species does occur in Project Area	Yes

STATUS: E = Federally Endangered  
T = Federally Threatened  
C = Federal Candidate  
S = Bureau-sensitive  
0 = nonstatus, removed from status, potential status

HABITAT: MB = Montane Brush  
MDS = Mixed Desert Shrub  
PJ = Pinyon-Juniper  
PJS = Pinyon-Juniper-Sagebrush  
SDS = Salt Desert Scrub

OCCURRENCE: None = populations, potential or suitable habitat for this species unknown in Project Area.  
Yes = There are no known occurrences in Project Area; however, habitat does occur here.

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SPECIAL STATUS PLANT SPECIES REPORT

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AUGUST 2010 LEASE SALE:

PARCEL UT0810-053

**LOCATION:** Section 34 & 35, Township 3 South, Range 19 East

**Project Description:** The BLM proposes to include parcel 053 in the August 2010 oil and gas lease sale.

**SITE DESCRIPTION:** Substrate underling the proposed project belongs to the Brennan Basin Member of the Duchesne River Formation, Frontier Sandstone, and Mancos Shale. A basin big sagebrush, mountain big sagebrush, and pinyon-juniper community dominates the vegetation in the vicinity of the parcel.

**DISCUSSION:** Having examined the records of occurrence within the BLM GIS data layers, and the potential habitat polygons for Uinta Basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) being developed by the US Fish and Wildlife Service, the parcel may include potential habitat (ie proximity to known populations and containing substrate derived from the Duchesne River Formation) for Hamilton milkvetch (*Astragalus hamiltonii*) and Goodrich's beardtongue (*Penstemon goodrichii*). The nearest known special status plant is an individual or population of Hamilton milkvetch located approximately 3.0 miles to the southwest of the parcel. With the exception of Hamilton milkvetch and Goodrich's beardtongue, the parcel is not found within potential or suitable habitat for any other candidate, federally listed, and Bureau sensitive plant species.

**SPECIAL STATUS PLANT OCCURRENCE IN VFO**

SPECIES	S T A T U S	LOCATION / HABITAT (county—location, geologic formation, plant community, elevation)	OCCURRENCE OR OCCURRENCE POTENTIAL	ELIMINATED FROM ANAYSIS?
<i>Arabis vivariensis</i> Park rock cress	S	Uintah—Diamond Mt, Diamond Gulch Weber Fm sandstone & limestone, MDS or PJ, 5000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus equisolensis</i> Horseshoe milkvetch	0	Uintah—Green River Horseshoe Bend, Duchesne River Fm sand & silty sand, MDS, 4790'-5185'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah—Asphalt Ridge Mowry, Dakota & Wasatch Fms Lapoint & Dry Gulch Mbrs, Duchesne Fm MDS or PJ, 5240'-5800'	The parcel is in proximity to the species and is found on similar substrate	NO
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, ne Uintah—east Uinta Mts canyons Crowe & Allen Cyns, Diamond Mt WMA PJS, MDS or riparian, 5500'-6200'	None. Habitat for this species does occur in Project Area	Yes
<i>Cleomella p. var. goodrichii</i> Goodrich cleomella	S	Uintah—Diamond Mt Morrison, Mancos, Tropic Fms heavy clay & shale slopes SDS, 4000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Erigeron untermannii</i> Untermann fleabane	S	Duchesne, Uintah—West Tavaputs Plateau Green River, Uinta Fm ridges, dry calcareous shales & sandstones PJ or MB, 7000'-7800'	None. Habitat for this species does occur in Project Area	Yes
<i>Habenaria zothecina</i> Alcove bog-orchid	S	Uintah—"hanging garden" oases Navajo or Nugget Sandstone Fm MDS, PJS, or oak brush, 4360'-8690'	None. Habitat for this species does occur in Project Area	Yes
<i>Hymenoxys lapidicola</i> Rock bitterweed	S	Uintah—Blue Mt, Cliff Ridge Weber Fm, sandy ledges & crevices PJ or ponderosa-manzanita, 5700'-8100'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	TRIBAL—Duchesne West Tavaputs Plateau, Indian Canyon Uinta Fm, white shale outcrops & ridges barren inclusions in PJ, 6200'-6500'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium huberi</i> Huber pepperplant	S	Uintah—foothills, Ashley Crk, Dry Fork Chinle, Park City, Weber Fm eroding cliffs, alluvium, sandy or shaly bluffs black sage or MB, 5000'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Mentzelia goodrichii</i> Goodrich blazingstar	S	Duchesne—Willow & Argyle Canyons Green River Fm, steep escarpments & cliffs white calcareous shale, MB, 8100'-8800'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon acaulis</i> Stemless beardtongue	S	Daggett—Browns Park Fm ashy, gravelly or sandy ridges & knolls sagebrush-desert grass or PJ, 5840'-7285'	None. Habitat for this species does occur in Project	Yes

		Area		
<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett—Browns Park Fm Green River Fm sandy / shaly bluffs, slopes juniper, thistle, buckwheat, serviceberry 5500'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon goodrichii</i> Goodrich beardtongue	S	Duchesne, Uintah— Lapoint, Tridell, Whiterocks Duchesne River Fm; clay badlands MDS, shadscale, PJ or MB, 5590'-6215'	The parcel is in proximity to the species and is found on similar substrate	NO
<i>Penstemon grahamii</i> Graham beardtongue	S	Uintah, Duchesne— oil shale outcrops throughout VFO Evacuation Creek, lower Parachute Mbrs oil shale or white shale knolls & talus semi-barren MDS or PJ, 4600'-6700'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon s. var. albifluvis</i> White River beardtongue	C	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah—canyon rims & steep slopes contact zone, Uinta-Green River Fms MDS, 5000'-5650'	None. Habitat for this species does occur in Project Area	Yes
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, Uintah— Big Pack Mt, Wrinkles Rd, Hill Creek Basin Green River Fm, calcareous shale MDS, PJS or MB, 5400'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne—Pariette Wash south of Myton Uinta Fm, Wagonhound Mbr, alkaline clay shadscale, mat-saltbush, greasewood comm 4700'-5400'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, Uintah—widespread in VFO alluvial benches Ouray to Carbon Co. line MDS, 4700'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Spiranthes diluvialis</i> Ute ladies'-tresses	T	Daggett, Duchesne, Uintah— unconsolidated alluvium riparian corridors, wetlands, wet meadows 4400'-6810'	None. Habitat for this species does occur in Project Area	Yes
<i>Thelesperma caespitosum</i> Uinta greenthread	S	Duchesne— West Tavaputs Plateau, north slope Uintas Bishop Fm, white shale benches, ridgecrests cushion plant comm above PJS & MB 5000'-9000'	None. Habitat for this species does occur in Project Area	Yes

STATUS: E = Federally Endangered  
T = Federally Threatened  
C = Federal Candidate  
S = Bureau-sensitive  
0 = nonstatus, removed from status, potential status

HABITAT: MB = Montane Brush  
MDS = Mixed Desert Shrub  
PJ = Pinyon-Juniper  
PJS = Pinyon-Juniper-Sagebrush  
SDS = Salt Desert Scrub

OCCURRENCE: None = populations, potential or suitable habitat for this species unknown in Project Area.  
Yes = There are no known occurrences in Project Area; however, habitat does occur here.

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SPECIAL STATUS PLANT SPECIES REPORT

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AUGUST 2010 LEASE SALE:

PARCEL Ut0810-054

**LOCATION:** Section 6, Township 11 South, Range 19 East

**Project Description:** The BLM proposes to include parcel 054 in the August 2010 oil and gas lease sale.

**SITE DESCRIPTION:** Substrate underling the proposed project belongs to Member B of the Uinta Formation and sandstone and limestone facies of the Green River Formation. Badland, black sagebrush, and Wyoming big sagebrush communities dominate the vegetation in the vicinity of the parcel.

**DISCUSSION:** Having examined the records of occurrence within the BLM GIS data layers, and the potential habitat polygons for Uinta Basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) being developed by the US Fish and Wildlife Service, the parcel is entirely located within potential habitat for Uinta Basin hookless cactus and may include habitat for clay reed-mustard (*Schoenocrambe argillacea*). The nearest known special status plant is an individual or population of clay reed-mustard located approximately 0.1 miles to the west of the parcel. With the exception of Uinta Basin hookless cactus and clay reed-mustard, the parcel is not found within potential or suitable habitat for any other candidate, federally listed, and Bureau sensitive plant species (including Graham's penstemon [*Penstemon grahamii*] which is found in the vicinity of the parcel but on different substrate).

## SPECIAL STATUS PLANT OCCURRENCE IN VFO

SPECIES	S T A T U S	LOCATION / HABITAT (county—location, geologic formation, plant community, elevation)	OCCURRENCE OR OCCURRENCE POTENTIAL	ELIMINATED FROM ANALYSIS?
<i>Arabis vivariensis</i> Park rock cress	S	Uintah—Diamond Mt, Diamond Gulch Weber Fm sandstone & limestone, MDS or PJ, 5000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus equisolensis</i> Horseshoe milkvetch	0	Uintah—Green River Horseshoe Bend, Duchesne River Fm sand & silty sand, MDS, 4790'-5185'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah—Asphalt Ridge Mowry, Dakota & Wasatch Fms Lapoint & Dry Gulch Mbrs, Duchesne Fm MDS or PJ, 5240'-5800'	None. Habitat for this species does occur in Project Area	Yes
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, ne Uintah—east Uinta Mts canyons Crowe & Allen Cyns, Diamond Mt WMA PJS, MDS or riparian, 5500'-6200'	None. Habitat for this species does occur in Project Area	Yes
<i>Cleomella p. var. goodrichii</i> Goodrich cleomella	S	Uintah—Diamond Mt Morrison, Mancos, Tropic Fms heavy clay & shale slopes SDS, 4000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Erigeron untermannii</i> Untermann fleabane	S	Duchesne, Uintah—West Tavaputs Plateau Green River, Uinta Fm ridges, dry calcareous shales & sandstones PJ or MB, 7000'-7800'	None. Habitat for this species does occur in Project Area	Yes
<i>Habenaria zothecina</i> Alcove bog-orchid	S	Uintah—"hanging garden" oases Navajo or Nugget Sandstone Fm MDS, PJS, or oak brush, 4360'-8690'	None. Habitat for this species does occur in Project Area	Yes
<i>Hymenoxys lapidicola</i> Rock bitterweed	S	Uintah—Blue Mt, Cliff Ridge Weber Fm, sandy ledges & crevices PJ or ponderosa-manzanita, 5700'-8100'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	TRIBAL—Duchesne West Tavaputs Plateau, Indian Canyon Uinta Fm, white shale outcrops & ridges barren inclusions in PJ, 6200'-6500'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium huberi</i> Huber pepperplant	S	Uintah—foothills, Ashley Crk, Dry Fork Chinle, Park City, Weber Fm eroding cliffs, alluvium, sandy or shaly bluffs black sage or MB, 5000'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Mentzelia goodrichii</i> Goodrich blazingstar	S	Duchesne—Willow & Argyle Canyons Green River Fm, steep escarpments & cliffs white calcareous shale, MB, 8100'-8800'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon acaulis</i> Stemless beardtongue	S	Daggett—Browns Park Fm ashy, gravelly or sandy ridges & knolls sagebrush-desert grass or PJ, 5840'-7285'	None. Habitat for this species does occur in Project	Yes

			Area	
<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett—Browns Park Fm Green River Fm sandy / shaly bluffs, slopes juniper, thistle, buckwheat, serviceberry 5500'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon goodrichii</i> Goodrich beardtongue	S	Duchesne, Uintah— Lapoint, Tridell, Whiterocks Duchesne River Fm; clay badlands MDS, shadscale, PJ or MB, 5590'-6215'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon grahamii</i> Graham beardtongue	S	Uintah, Duchesne— oil shale outcrops throughout VFO Evacuation Creek, lower Parachute Mbrs oil shale or white shale knolls & talus semi-barren MDS or PJ, 4600'-6700'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon s. var. albifluvis</i> White River beardtongue	C	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah—canyon rims & steep slopes contact zone, Uinta-Green River Fms MDS, 5000'-5650'	The parcel includes potential habitat for the species (steep slopes containing the contact zone between the Green River and Uinta formations)	NO
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, Uintah— Big Pack Mt, Wrinkles Rd, Hill Creek Basin Green River Fm, calcareous shale MDS, PJS or MB, 5400'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne—Pariette Wash south of Myton Uinta Fm, Wagonhound Mbr, alkaline clay shadscale, mat-saltbush, greasewood comm 4700'-5400'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, Uintah—widespread in VFO alluvial benches Ouray to Carbon Co. line MDS, 4700'-6000'	The parcel is located within potential habitat for the species	Yes
<i>Spiranthes diluvialis</i> Ute ladies'-tresses	T	Daggett, Duchesne, Uintah— unconsolidated alluvium riparian corridors, wetlands, wet meadows 4400'-6810'	None. Habitat for this species does occur in Project Area	Yes
<i>Thelesperma caespitosum</i> Uinta greenthread	S	Duchesne— West Tavaputs Plateau, north slope Uintas Bishop Fm, white shale benches, ridgecrests cushion plant comm above PJS & MB 5000'-9000'	None. Habitat for this species does occur in Project Area	Yes

STATUS: E = Federally Endangered  
T = Federally Threatened  
C = Federal Candidate  
S = Bureau-sensitive  
0 = nonstatus, removed from status, potential status

HABITAT: MB = Montane Brush  
MDS = Mixed Desert Shrub  
PJ = Pinyon-Juniper  
PJS = Pinyon-Juniper-Sagebrush  
SDS = Salt Desert Scrub

OCCURRENCE: None = populations, potential or suitable habitat for this species unknown in Project Area.  
Yes = There are no known occurrences in Project Area; however, habitat does occur here.

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SPECIAL STATUS PLANT SPECIES REPORT

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AUGUST 2010 LEASE SALE:

PARCEL UT0810-055

**LOCATION:** Section 1, Township 7 South, Range 21 East

**Project Description:** The BLM proposes to include parcel 55 in the August 2010 oil and gas lease sale.

**SITE DESCRIPTION:** Substrate underling the proposed project belongs to the Brennan Basin Member of the Duchesne River Formation. Badland and desert shrub communities dominate the vegetation in the vicinity of the parcels.

**DISCUSSION:** Having examined the records of occurrence within the BLM GIS data layers, and the potential habitat polygons for Uinta Basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) being developed by the US Fish and Wildlife Service, the parcel is located within potential habitat for Horseshoe milkvetch (*Astragalus equisolensis*) and contains multiple known occurrences of the species.

**SPECIAL STATUS PLANT OCCURRENCE IN VFO**

SPECIES	S T A T U S	LOCATION / HABITAT (county—location, geologic formation, plant community, elevation)	OCCURRENCE OR OCCURRENCE POTENTIAL	ELIMINATED FROM ANAYSIS?
<i>Arabis vivariensis</i> Park rock cress	S	Uintah—Diamond Mt, Diamond Gulch Weber Fm sandstone & limestone, MDS or PJ, 5000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus equisolensis</i> Horseshoe milkvetch	0	Uintah—Green River Horseshoe Bend, Duchesne River Fm sand & silty sand, MDS, 4790'-5185'	The parcel is located in potential habitat for this species	NO
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah—Asphalt Ridge Mowry, Dakota & Wasatch Fms Lapoint & Dry Gulch Mbrs, Duchesne Fm MDS or PJ, 5240'-5800'	None. Habitat for this species does occur in Project Area	Yes
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, ne Uintah—east Uinta Mts canyons Crowe & Allen Cyns, Diamond Mt WMA PJS, MDS or riparian, 5500'-6200'	None. Habitat for this species does occur in Project Area	Yes
<i>Cleomella p. var. goodrichii</i> Goodrich cleomella	S	Uintah—Diamond Mt Morrison, Mancos, Tropic Fms heavy clay & shale slopes SDS, 4000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Erigeron untermannii</i> Untermann fleabane	S	Duchesne, Uintah—West Tavaputs Plateau Green River, Uinta Fm ridges, dry calcareous shales & sandstones PJ or MB, 7000'-7800'	None. Habitat for this species does occur in Project Area	Yes
<i>Habenaria zothecina</i> Alcove bog-orchid	S	Uintah—"hanging garden" oases Navajo or Nugget Sandstone Fm MDS, PJS, or oak brush, 4360'-8690'	None. Habitat for this species does occur in Project Area	Yes
<i>Hymenoxys lapidicola</i> Rock bitterweed	S	Uintah—Blue Mt, Cliff Ridge Weber Fm, sandy ledges & crevices PJ or ponderosa-manzanita, 5700'-8100'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	TRIBAL—Duchesne West Tavaputs Plateau, Indian Canyon Uinta Fm, white shale outcrops & ridges barren inclusions in PJ, 6200'-6500'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium huberi</i> Huber pepperplant	S	Uintah—foothills, Ashley Crk, Dry Fork Chinle, Park City, Weber Fm eroding cliffs, alluvium, sandy or shaly bluffs black sage or MB, 5000'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Mentzelia goodrichii</i> Goodrich blazingstar	S	Duchesne—Willow & Argyle Canyons Green River Fm, steep escarpments & cliffs white calcareous shale, MB, 8100'-8800'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon acaulis</i> Stemless beardtongue	S	Daggett—Browns Park Fm ashy, gravelly or sandy ridges & knolls sagebrush-desert grass or PJ, 5840'-7285'	None. Habitat for this species does occur in Project Area	Yes

<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett—Browns Park Fm Green River Fm sandy / shaly bluffs, slopes juniper, thistle, buckwheat, serviceberry 5500'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon goodrichii</i> Goodrich beardtongue	S	Duchesne, Uintah— Lapoint, Tridell, Whiterocks Duchesne River Fm; clay badlands MDS, shadscale, PJ or MB, 5590'-6215'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon grahamii</i> Graham beardtongue	S	Uintah, Duchesne— oil shale outcrops throughout VFO Evacuation Creek, lower Parachute Mbrs oil shale or white shale knolls & talus semi-barren MDS or PJ, 4600'-6700'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon s. var. albifluvis</i> White River beardtongue	C	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah—canyon rims & steep slopes contact zone, Uinta-Green River Fms MDS, 5000'-5650'	None. Habitat for this species does occur in Project Area	Yes
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, Uintah— Big Pack Mt, Wrinkles Rd, Hill Creek Basin Green River Fm, calcareous shale MDS, PJS or MB, 5400'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne—Pariette Wash south of Myton Uinta Fm, Wagonhound Mbr, alkaline clay shadscale, mat-saltbush, greasewood comm 4700'-5400'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, Uintah—widespread in VFO alluvial benches Ouray to Carbon Co. line MDS, 4700'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Spiranthes diluvialis</i> Ute ladies'-tresses	T	Daggett, Duchesne, Uintah— unconsolidated alluvium riparian corridors, wetlands, wet meadows 4400'-6810'	None. Habitat for this species does occur in Project Area	Yes
<i>Thelesperma caespitosum</i> Uinta greenthread	S	Duchesne— West Tavaputs Plateau, north slope Uintas Bishop Fm, white shale benches, ridgecrests cushion plant comm above PJS & MB 5000'-9000'	None. Habitat for this species does occur in Project Area	Yes

STATUS: E = Federally Endangered  
T = Federally Threatened  
C = Federal Candidate  
S = Bureau-sensitive  
0 = nonstatus, removed from status, potential status

HABITAT: MB = Montane Brush  
MDS = Mixed Desert Shrub  
PJ = Pinyon-Juniper  
PJS = Pinyon-Juniper-Sagebrush  
SDS = Salt Desert Scrub

OCCURRENCE: None = populations, potential or suitable habitat for this species unknown in Project Area.  
Yes = There are no known occurrences in Project Area; however, habitat does occur here.

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SPECIAL STATUS PLANT SPECIES REPORT

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AUGUST 2010 LEASE SALE:

PARCEL UT0810-056 and UT0810-057

**LOCATION:** Township 6 South, Range 22 East; Township 7 South, Range 22 East

**Project Description:** The BLM proposes to include parcels 56 and 57 in the August 2010 oil and gas lease sale.

**SITE DESCRIPTION:** Substrate underling the proposed project belongs to the Brennan Basin Member of the Duchesne River Formation. Badland and desert shrub communities dominate the vegetation in the vicinity of the parcels.

**DISCUSSION:** Having examined the records of occurrence within the BLM GIS data layers, and the potential habitat polygons for Uinta Basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) being developed by the US Fish and Wildlife Service, the parcel is located within potential habitat for Horseshoe milkvetch (*Astragalus equisolensis*) and contains multiple known occurrences of the species.

**SPECIAL STATUS PLANT OCCURRENCE IN VFO**

SPECIES	S T A T U S	LOCATION / HABITAT (county—location, geologic formation, plant community, elevation)	OCCURRENCE OR OCCURRENCE POTENTIAL	ELIMINATED FROM ANALYSIS?
<i>Arabis vivariensis</i> Park rock cress	S	Uintah—Diamond Mt, Diamond Gulch Weber Fm sandstone & limestone, MDS or PJ, 5000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus equisolensis</i> Horseshoe milkvetch	0	Uintah—Green River Horseshoe Bend, Duchesne River Fm sand & silty sand, MDS, 4790'-5185'	The parcel is located in potential habitat for this species	NO
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah—Asphalt Ridge Mowry, Dakota & Wasatch Fms Lapoint & Dry Gulch Mbrs, Duchesne Fm MDS or PJ, 5240'-5800'	None. Habitat for this species does occur in Project Area	Yes
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, ne Uintah—east Uinta Mts canyons Crowe & Allen Cyns, Diamond Mt WMA PJS, MDS or riparian, 5500'-6200'	None. Habitat for this species does occur in Project Area	Yes
<i>Cleomella p. var. goodrichii</i> Goodrich cleomella	S	Uintah—Diamond Mt Morrison, Mancos, Tropic Fms heavy clay & shale slopes SDS, 4000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Erigeron untermannii</i> Untermann fleabane	S	Duchesne, Uintah—West Tavaputs Plateau Green River, Uinta Fm ridges, dry calcareous shales & sandstones PJ or MB, 7000'-7800'	None. Habitat for this species does occur in Project Area	Yes
<i>Habenaria zothecina</i> Alcove bog-orchid	S	Uintah—"hanging garden" oases Navajo or Nugget Sandstone Fm MDS, PJS, or oak brush, 4360'-8690'	None. Habitat for this species does occur in Project Area	Yes
<i>Hymenoxys lapidicola</i> Rock bitterweed	S	Uintah—Blue Mt, Cliff Ridge Weber Fm, sandy ledges & crevices PJ or ponderosa-manzanita, 5700'-8100'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	TRIBAL—Duchesne West Tavaputs Plateau, Indian Canyon Uinta Fm, white shale outcrops & ridges barren inclusions in PJ, 6200'-6500'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium huberi</i> Huber pepperplant	S	Uintah—foothills, Ashley Crk, Dry Fork Chinle, Park City, Weber Fm eroding cliffs, alluvium, sandy or shaly bluffs black sage or MB, 5000'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Mentzelia goodrichii</i> Goodrich blazingstar	S	Duchesne—Willow & Argyle Canyons Green River Fm, steep escarpments & cliffs white calcareous shale, MB, 8100'-8800'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon acaulis</i> Stemless beardtongue	S	Daggett—Browns Park Fm ashy, gravelly or sandy ridges & knolls sagebrush-desert grass or PJ, 5840'-7285'	None. Habitat for this species does occur in Project Area	Yes

<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett—Browns Park Fm Green River Fm sandy / shaly bluffs, slopes juniper, thistle, buckwheat, serviceberry 5500'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon goodrichii</i> Goodrich beardtongue	S	Duchesne, Uintah— Lapoint, Tridell, Whiterocks Duchesne River Fm; clay badlands MDS, shadscale, PJ or MB, 5590'-6215'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon grahamii</i> Graham beardtongue	S	Uintah, Duchesne— oil shale outcrops throughout VFO Evacuation Creek, lower Parachute Mbrs oil shale or white shale knolls & talus semi-barren MDS or PJ, 4600'-6700'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon s. var. albifluvis</i> White River beardtongue	C	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah—canyon rims & steep slopes contact zone, Uinta-Green River Fms MDS, 5000'-5650'	None. Habitat for this species does occur in Project Area	Yes
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, Uintah— Big Pack Mt, Wrinkles Rd, Hill Creek Basin Green River Fm, calcareous shale MDS, PJS or MB, 5400'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne—Pariette Wash south of Myton Uinta Fm, Wagonhound Mbr, alkaline clay shadscale, mat-saltbush, greasewood comm 4700'-5400'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, Uintah—widespread in VFO alluvial benches Ouray to Carbon Co. line MDS, 4700'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Spiranthes diluvialis</i> Ute ladies'-tresses	T	Daggett, Duchesne, Uintah— unconsolidated alluvium riparian corridors, wetlands, wet meadows 4400'-6810'	None. Habitat for this species does occur in Project Area	Yes
<i>Thelesperma caespitosum</i> Uinta greenthread	S	Duchesne— West Tavaputs Plateau, north slope Uintas Bishop Fm, white shale benches, ridgecrests cushion plant comm above PJS & MB 5000'-9000'	None. Habitat for this species does occur in Project Area	Yes

STATUS: E = Federally Endangered  
T = Federally Threatened  
C = Federal Candidate  
S = Bureau-sensitive  
0 = nonstatus, removed from status, potential status

HABITAT: MB = Montane Brush  
MDS = Mixed Desert Shrub  
PJ = Pinyon-Juniper  
PJS = Pinyon-Juniper-Sagebrush  
SDS = Salt Desert Scrub

OCCURRENCE: None = populations, potential or suitable habitat for this species unknown in Project Area.  
Yes = There are no known occurrences in Project Area; however, habitat does occur here.

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SPECIAL STATUS PLANT SPECIES REPORT

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AUGUST 2010 LEASE SALE:

PARCEL UT0810-058 and UT0810-059

**LOCATION:** Township 6 South, Range 23 East and Township 7 South, Range 23 East

**Project Description:** The BLM proposes to include parcel 058 and 059 in the August 2010 oil and gas lease sale.

**SITE DESCRIPTION:** Substrate underling the proposed project belongs to the Brennan Basin Member of the Duchesne River Formation, mixed alluvium and colluviums, and mixed alluvium and eolian deposits. Black greasewood, desert shrub, and black sagebrush communities dominate the vegetation in the vicinity of the parcel.

**DISCUSSION:** Having examined the records of occurrence within the BLM GIS data layers, and the potential habitat polygons for Uinta Basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) being developed by the US Fish and Wildlife Service, the parcels are not located within potential habitat for any special status species. The nearest known special status plant is an individual or population of horseshoe milkvetch (*Astragalus equisolensis*) located approximately 1.4 miles to the west of the parcels.

**SPECIAL STATUS PLANT OCCURRENCE IN VFO**

SPECIES	S T A T U S	LOCATION / HABITAT (county—location, geologic formation, plant community, elevation)	OCCURRENCE OR OCCURRENCE POTENTIAL	ELIMINATED FROM ANALYSIS?
<i>Arabis vivariensis</i> Park rock cress	S	Uintah—Diamond Mt, Diamond Gulch Weber Fm sandstone & limestone, MDS or PJ, 5000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus equisolensis</i> Horseshoe milkvetch	0	Uintah—Green River Horseshoe Bend, Duchesne River Fm sand & silty sand, MDS, 4790'-5185'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah—Asphalt Ridge Mowry, Dakota & Wasatch Fms Lapoint & Dry Gulch Mbrs, Duchesne Fm MDS or PJ, 5240'-5800'	None. Habitat for this species does occur in Project Area	Yes
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, ne Uintah—east Uinta Mts canyons Crowe & Allen Cyns, Diamond Mt WMA PJS, MDS or riparian, 5500'-6200'	None. Habitat for this species does occur in Project Area	Yes
<i>Cleomella p. var. goodrichii</i> Goodrich cleomella	S	Uintah—Diamond Mt Morrison, Mancos, Tropic Fms heavy clay & shale slopes SDS, 4000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Erigeron untermannii</i> Untermann fleabane	S	Duchesne, Uintah—West Tavaputs Plateau Green River, Uinta Fm ridges, dry calcareous shales & sandstones PJ or MB, 7000'-7800'	None. Habitat for this species does occur in Project Area	Yes
<i>Habenaria zothecina</i> Alcove bog-orchid	S	Uintah—"hanging garden" oases Navajo or Nugget Sandstone Fm MDS, PJS, or oak brush, 4360'-8690'	None. Habitat for this species does occur in Project Area	Yes
<i>Hymenoxys lapidicola</i> Rock bitterweed	S	Uintah—Blue Mt, Cliff Ridge Weber Fm, sandy ledges & crevices PJ or ponderosa-manzanita, 5700'-8100'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	TRIBAL—Duchesne West Tavaputs Plateau, Indian Canyon Uinta Fm, white shale outcrops & ridges barren inclusions in PJ, 6200'-6500'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium huberi</i> Huber pepperplant	S	Uintah—foothills, Ashley Crk, Dry Fork Chinle, Park City, Weber Fm eroding cliffs, alluvium, sandy or shaly bluffs black sage or MB, 5000'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Mentzelia goodrichii</i> Goodrich blazingstar	S	Duchesne—Willow & Argyle Canyons Green River Fm, steep escarpments & cliffs white calcareous shale, MB, 8100'-8800'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon acaulis</i> Stemless beardtongue	S	Daggett—Browns Park Fm ashy, gravelly or sandy ridges & knolls sagebrush-desert grass or PJ, 5840'-7285'	None. Habitat for this species does occur in Project	Yes

			Area	
<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett—Browns Park Fm Green River Fm sandy / shaly bluffs, slopes juniper, thistle, buckwheat, serviceberry 5500'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon goodrichii</i> Goodrich beardtongue	S	Duchesne, Uintah— Lapoint, Tridell, Whiterocks Duchesne River Fm; clay badlands MDS, shadscale, PJ or MB, 5590'-6215'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon grahamii</i> Graham beardtongue	S	Uintah, Duchesne— oil shale outcrops throughout VFO Evacuation Creek, lower Parachute Mbrs oil shale or white shale knolls & talus semi-barren MDS or PJ, 4600'-6700'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon s. var. albifluvis</i> White River beardtongue	C	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah—canyon rims & steep slopes contact zone, Uinta-Green River Fms MDS, 5000'-5650'	The parcel includes potential habitat for the species (steep slopes containing the contact zone between the Green River and Uinta formations)	NO
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, Uintah— Big Pack Mt, Wrinkles Rd, Hill Creek Basin Green River Fm, calcareous shale MDS, PJS or MB, 5400'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne—Pariette Wash south of Myton Uinta Fm, Wagonhound Mbr, alkaline clay shadscale, mat-saltbush, greasewood comm 4700'-5400'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, Uintah—widespread in VFO alluvial benches Ouray to Carbon Co. line MDS, 4700'-6000'	The parcel is located within potential habitat for the species	Yes
<i>Spiranthes diluvialis</i> Ute ladies'-tresses	T	Daggett, Duchesne, Uintah— unconsolidated alluvium riparian corridors, wetlands, wet meadows 4400'-6810'	None. Habitat for this species does occur in Project Area	Yes
<i>Thelesperma caespitosum</i> Uinta greenthread	S	Duchesne— West Tavaputs Plateau, north slope Uintas Bishop Fm, white shale benches, ridgecrests cushion plant comm above PJS & MB 5000'-9000'	None. Habitat for this species does occur in Project Area	Yes

STATUS: E = Federally Endangered  
T = Federally Threatened  
C = Federal Candidate  
S = Bureau-sensitive  
0 = nonstatus, removed from status, potential status

HABITAT: MB = Montane Brush  
MDS = Mixed Desert Shrub  
PJ = Pinyon-Juniper  
PJS = Pinyon-Juniper-Sagebrush  
SDS = Salt Desert Scrub

OCCURRENCE: None = populations, potential or suitable habitat for this species unknown in Project Area.  
Yes = There are no known occurrences in Project Area; however, habitat does occur here.

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SPECIAL STATUS PLANT SPECIES REPORT

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AUGUST 2010 LEASE SALE:

PARCEL UT0810-060

**LOCATION:** Township 11 South, Range 23 East

**Project Description:** The BLM proposes to include parcel 060 in the August 2010 oil and gas lease sale.

**SITE DESCRIPTION:** Substrate underling the proposed project belongs to Member A and B of the Uinta Formation and mixed alluvium and colluviums deposits. Pinyon juniper, black sagebrush, Wyoming big sagebrush, and badland communities dominate the vegetation in the vicinity of the parcel.

**DISCUSSION:** Having examined the records of occurrence within the BLM GIS data layers, and the potential habitat polygons for Uinta Basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) being developed by the US Fish and Wildlife Service, that the parcel is not located within potential habitat for any special status species. The nearest known special status plant is an individual or population of Graham's beardtongue (*Penstemon grahamii*) located approximately 4.7 miles to the south of the parcel.

**SPECIAL STATUS PLANT OCCURRENCE IN VFO**

SPECIES	S T A T U S	LOCATION / HABITAT (county—location, geologic formation, plant community, elevation)	OCCURRENCE OR OCCURRENCE POTENTIAL	ELIMINATED FROM ANALYSIS?
<i>Arabis vivariensis</i> Park rock cress	S	Uintah—Diamond Mt, Diamond Gulch Weber Fm sandstone & limestone, MDS or PJ, 5000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus equisolensis</i> Horseshoe milkvetch	0	Uintah—Green River Horseshoe Bend, Duchesne River Fm sand & silty sand, MDS, 4790'-5185'	None. Habitat for this species does occur in Project Area	Yes
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah—Asphalt Ridge Mowry, Dakota & Wasatch Fms Lapoint & Dry Gulch Mbrs, Duchesne Fm MDS or PJ, 5240'-5800'	None. Habitat for this species does occur in Project Area	Yes
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, ne Uintah—east Uinta Mts canyons Crowe & Allen Cyns, Diamond Mt WMA PJS, MDS or riparian, 5500'-6200'	None. Habitat for this species does occur in Project Area	Yes
<i>Cleomella p. var. goodrichii</i> Goodrich cleomella	S	Uintah—Diamond Mt Morrison, Mancos, Tropic Fms heavy clay & shale slopes SDS, 4000'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Erigeron untermannii</i> Untermann fleabane	S	Duchesne, Uintah—West Tavaputs Plateau Green River, Uinta Fm ridges, dry calcareous shales & sandstones PJ or MB, 7000'-7800'	None. Habitat for this species does occur in Project Area	Yes
<i>Habenaria zothecina</i> Alcove bog-orchid	S	Uintah—"hanging garden" oases Navajo or Nugget Sandstone Fm MDS, PJS, or oak brush, 4360'-8690'	None. Habitat for this species does occur in Project Area	Yes
<i>Hymenoxys lapidicola</i> Rock bitterweed	S	Uintah—Blue Mt, Cliff Ridge Weber Fm, sandy ledges & crevices PJ or ponderosa-manzanita, 5700'-8100'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	TRIBAL—Duchesne West Tavaputs Plateau, Indian Canyon Uinta Fm, white shale outcrops & ridges barren inclusions in PJ, 6200'-6500'	None. Habitat for this species does occur in Project Area	Yes
<i>Lepidium huberi</i> Huber pepperplant	S	Uintah—foothills, Ashley Crk, Dry Fork Chinle, Park City, Weber Fm eroding cliffs, alluvium, sandy or shaly bluffs black sage or MB, 5000'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Mentzelia goodrichii</i> Goodrich blazingstar	S	Duchesne—Willow & Argyle Canyons Green River Fm, steep escarpments & cliffs white calcareous shale, MB, 8100'-8800'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon acaulis</i> Stemless beardtongue	S	Daggett—Browns Park Fm ashy, gravelly or sandy ridges & knolls sagebrush-desert grass or PJ, 5840'-7285'	None. Habitat for this species does occur in Project	Yes

			Area	
<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett—Browns Park Fm Green River Fm sandy / shaly bluffs, slopes juniper, thistle, buckwheat, serviceberry 5500'-6400'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon goodrichii</i> Goodrich beardtongue	S	Duchesne, Uintah— Lapoint, Tridell, Whiterocks Duchesne River Fm; clay badlands MDS, shadscale, PJ or MB, 5590'-6215'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon grahamii</i> Graham beardtongue	S	Uintah, Duchesne— oil shale outcrops throughout VFO Evacuation Creek, lower Parachute Mbrs oil shale or white shale knolls & talus semi-barren MDS or PJ, 4600'-6700'	None. Habitat for this species does occur in Project Area	Yes
<i>Penstemon s. var. albifluvis</i> White River beardtongue	C	Uintah—south & southeast of Bonanza Evacuation Creek, lower Parachute Mbrs shale slopes, semi-barren MDS or PJ 4600'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah—canyon rims & steep slopes contact zone, Uinta-Green River Fms MDS, 5000'-5650'	The parcel includes potential habitat for the species (steep slopes containing the contact zone between the Green River and Uinta formations)	NO
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, Uintah— Big Pack Mt, Wrinkles Rd, Hill Creek Basin Green River Fm, calcareous shale MDS, PJS or MB, 5400'-6000'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne—Pariette Wash south of Myton Uinta Fm, Wagonhound Mbr, alkaline clay shadscale, mat-saltbush, greasewood comm 4700'-5400'	None. Habitat for this species does occur in Project Area	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, Uintah—widespread in VFO alluvial benches Ouray to Carbon Co. line MDS, 4700'-6000'	The parcel is located within potential habitat for the species	Yes
<i>Spiranthes diluvialis</i> Ute ladies'-tresses	T	Daggett, Duchesne, Uintah— unconsolidated alluvium riparian corridors, wetlands, wet meadows 4400'-6810'	None. Habitat for this species does occur in Project Area	Yes
<i>Thelesperma caespitosum</i> Uinta greenthread	S	Duchesne— West Tavaputs Plateau, north slope Uintas Bishop Fm, white shale benches, ridge crests cushion plant common above PJS & MB 5000'-9000'	None. Habitat for this species does occur in Project Area	Yes

STATUS: E = Federally Endangered  
T = Federally Threatened  
C = Federal Candidate  
S = Bureau-sensitive  
0 = nonstatus, removed from status, potential status

HABITAT: MB = Montane Brush  
MDS = Mixed Desert Shrub  
PJ = Pinyon-Juniper  
PJS = Pinyon-Juniper-Sagebrush  
SDS = Salt Desert Scrub

OCCURRENCE: None = populations, potential or suitable habitat for this species unknown in Project Area.  
Yes = There are no known occurrences in Project Area, however, habitat does occur here.

