

DEPARTMENT OF STATE LANDS

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ENVIRONMENTAL QUALITY CONTROL
CAPITOL STATION



STAN STEPHENS, GOVERNOR

STATE OF MONTANA

(406) 444-2074

1625 ELEVENTH AVENUE
HELENA, MONTANA 59620

October 26, 1992

To Whom it may concern:

We have reviewed the attached Environmental Assessment for the December 1, 1992 lease sale. The stipulations, as listed in appendix A, sufficiently mitigate environmental concerns with leasing the proposed tracts. There is no need for an EIS for this lease sale.

Monte E. Mason
Monte Mason, MMB Chief

10/27/92
Date

Mr. Jeff Hagemer
Jeff Hagemer, Lands Division Administrator

10/27/92
Date

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ENVIRONMENTAL ASSESSMENT ON THE December 1, 1992 OIL AND GAS LEASE SALE Montana Department of State Lands

I. Introduction

The State of Montana owns over six million acres of oil and gas rights that are scattered across the state. The land that these mineral rights lie under are varied, consisting of timber, grazing, and agricultural land. The state also owns mineral rights below navigable lakes and streams in Montana. Each land type will be impacted differently by oil and gas related activity.

This document contains the environmental review of lands nominated for oil and gas leasing for the December 1, 1992 lease sale. Alternatives reviewed in this document are 1) No Action - deny the oil and gas lease; and 2) approve the oil and gas lease with appropriate stipulations.

II. Purpose and Need for the Action

The Montana Department of State Lands has received nominations for 89 tracts of land totaling 30,909.53 acres for the purpose of oil and gas exploration and development. A listing of these tracts and their location is found in Appendix A. Prior to leasing the nominated tracts, the DSL must review each tract for potential impacts on the human and natural environment from oil and gas operations.

By leasing lands for oil and gas exploration, the trusts administered by DSL benefit from rental and potential royalty income.

III. Agency Responsibilities

A. Department of State Lands

The Department of State Lands (DSL) is authorized to lease state owned oil and gas for exploration and development (MCA 77-3-401, et seq). Oil and gas lease sales occur quarterly, as required by ARM 26.3.206(1). Under the Montana Environmental Policy Act (MCA 75-1-201, et seq.), the Department of State Lands must review leasing of nominated tracts for potential impacts on the human and natural environment prior to leasing unless a clause for denial of activity is added to the lease.

The DSL must decide whether to lease the nominated tracts with appropriate stipulations or deny leasing.

B. Board of Oil and Gas Conservation

The Board of Oil and Gas Conservation (BOGC) is responsible for requiring "measures to be taken to prevent contamination of or damage to surrounding land or underground strata caused by drilling operations and production..." (MCA 82-11-111(2)(a)). The BOGC issues permits for oil and gas

drilling operations (MCA 82-11-122), and also oversees proper plugging and abandonment of seismic shotholes and oil and gas wells (MCA 82-11-123(4)). All permitting by the BOGC is subject to an environmental review under the Montana Environmental Policy Act (MCA 75-1-201, et seq.). A programmatic EIS on oil and gas activity was completed by the BOGC in 1989 (BOGC, 1989) and is incorporated in this EA by reference. DSL adopts the conclusions and information contained in that EIS.

The BOGC is not involved in leasing decisions taken by the DSL.

IV. Procedure

Notification of the tracts nominated for lease was submitted to the following agencies and individuals for review and comments:

Montana Department of State Lands Area Office Managers
Montana Department of State Lands Staff Archaeologist
Montana Department of Fish, Wildlife and Parks Regional Offices
The State Historical Preservation Office
Montana Natural Heritage Program

Comments received from these agencies and individuals are reviewed and stipulations are developed for each tract nominated for leasing.

Issues reviewed for this process include:

The presence of sensitive plant and animal communities.
The presence of historical or cultural sites.
Potential impacts of oil and gas related activities on soils, hydrology, wildlife, vegetation, and human resources.
Potential for "No Surface Occupancy" restrictions.
Potential conflicts with current land use (such as Federal Farm Programs including CRP).
Other potential resources for the tract.

Field evaluations from past inspections, information from DSL field office files, and, if necessary, additional on-site evaluations are used by the DSL field staff in assessing potential impacts from oil and gas leasing and subsequent development. Information contained in the programmatic EIS produced by the BOGC (BOGC, 1989) is also utilized in determining the potential impacts of future oil and gas development for the nominated tracts. Stipulations are then attached to the lease to provide resource protection during future lease operations. These stipulations range from strict, no surface occupancy restrictions to requirements for operating plan approval (with the potential of future denial) to surface damage settlement issues. A list of example stipulations is located in Appendix B.

For all nominated tracts, additional environmental assessments will be completed with the receipt of an operating plan by both DSL and the BOGC. Potential problems are mitigated at that time through modifications in the plan. DSL can not deny drilling of a well unless stipulated at the time of the lease, but stipulations can be added to the operating plan to mitigate impacts. The BOGC, however, may deny a drilling permit or include additional stipulations in the drilling permit.

For tracts nominated in potentially sensitive areas, a special stipulation has been developed that creates a tiered environmental review process with the potential for future denial of activities (Appendix B, Stipulation E). An impact analysis is not required prior to leasing a tract with this stipulation (North Fork Preservation Assoc. v. Dept of State Lands, 238 Mont. 451, 778, P.2d 862 (1989); Conner v. Burford, 836 F.2d 1521 at 1528 (9th Cir., 1988)). When activity is proposed on a lease, the operating plan receives an environmental review. This review consists of an evaluation of impacts of the proposed action. Additional stipulations and mitigating

measures may be required prior to the activity, or activity may be denied. Depending on the location and potential impacts from the specific activity proposed, this environmental review could consist of a basic Environmental Assessment up to a full Environmental Impact Statement.

Additional environmental assessments may be necessary with further development of the lease. Environmental assessments are completed as necessary throughout the term of the lease.

V. Public Notification

Public notice of nominated tracts and attached stipulations is made one month prior to the lease sale in the Montana Oil Journal and through a mailing list of approximately 800 individuals and companies.

VI. Resource Analysis

The following issues were analyzed for potential impact on state owned land:

A. Wildlife:

Potential impacts on wildlife for each tract are analyzed by the DSL field office staff with additional input from the Department of Fish, Wildlife and Parks (DFWP) regional office staff. Letters requesting information on potential impacts from oil and gas activities are sent to each DFWP regional office. If no site specific response is received from these offices, and the DSL field office makes no comment on potential conflict with wildlife on a nominated tract, it is assumed that no future conflict will arise that can not be mitigated at a later date.

B. Water Quality:

Potential impacts on surface water resources are analyzed by the DSL field office staff. Notation is made on locations of streams, lakes, ponds, and springs within a nominated tracts. If set-backs from water resources are required, a stipulation is developed to protect these resources.

Ground water resource protection is required by the BOGC, and BOGC permitting is contingent on adequate protection.

C. Soils:

DSL field office personnel review soil surveys conducted by the ASCS along with field notes from previous inspections to determine the potential for impacts to fragile soils. If protection of fragile soils is needed, a stipulation is developed to protect the resource.

D. Vegetation

DSL field office personnel review records in the office for potential impacts on vegetation in an area. If rare plants or potential for significant impacts exist on a tract, stipulations are developed to protect this resource.

E. Land use conflicts:

Nominated tracts are reviewed by DSL field office personnel for current land use, and potential conflicts are noted. Each lease is stipulated with a clause leaving the oil and gas lessee responsible for payment of actual surface damages arising from oil and gas exploration or development (Appendix B, stipulation D). The lease terms also prohibit drilling within 200 feet of a residence or barn.

Usually, oil and gas activity only impacts a small portion of any lease, and conflicts with current land use are rare.

F. Historical and Cultural Resources:

Each nominated tract is reviewed by the DSL staff archaeologist for the presence of known historical or cultural sites and for the potential of discovery of a new historical or cultural site. The State Historic Preservation Office is also contacted for review of the nominated tracts. A stipulation is added to each lease that protects archaeological or historic sites, and surface activities may be restricted if a significant site is discovered during the lease term (Appendix B, stipulation B).

G. Existing facilities/Geologic potential

Each nominated tract is reviewed by the DSL staff petroleum engineer and the DSL staff geologist for production potential, production or drilling history, and existing facilities. If concerns exist, stipulations are added to the lease. Example stipulations for these circumstances are located in Appendix B, stipulations I-K.

VII. Impact Analysis

A. No Action Alternative - Deny the oil and gas lease.

If a lease is denied, the only resource that would be negatively impacted is the loss of revenue from rental and royalty payments to the appropriate trust. All other resources would not be affected.

B. Leasing Alternative

Comments received on potential impacts for these tracts are located in Appendix C. These comments were requested on September 30, 1992 and must have been received by October 23, 1992 for consideration in formulating the stipulations. Late comments are located in Appendix D. Table 1 notes comments made for each tract and stipulations attached to protect the resource. A listing of the tracts and associated stipulations is also included in Appendix A.

VIII. Need for an Environmental Impact Statement

The DSL is required to evaluate each action to a "level of detail appropriate to the following considerations: ...the complexity of the proposed action, ...the environmental sensitivity of the area affected, ...the degree of uncertainty that the proposed action will have a significant impact on the quality of the human environment, ...and...the need for and complexity of mitigation required to avoid the presence of significant impacts" (ARM 26.2.645 (2)).

Since environmentally sensitive tracts are stipulated for future environmental review with the submittance of an operating plan, all other tracts nominated are located in areas where potential impacts are minor or can be mitigated upon receipt of an operating plan, and the BOGC must approve an operating plan within MEPA prior to drilling activity, an Environmental Impact Statement is not required for the leasing action.

IX. Preparers

Compilation and preparation:

Gary Weissmann, Hydrogeologist, Department of State Lands

Agencies and persons consulted:

Dori Passmann, Archaeologist, Department of State Lands
Craig Roberts, Area Manager, Northeast Land Office, DSL
Jim Greene, Acting Area Manager, Central Land Office, DSL
Dwayne Andrews, Area Manager, Eastern Land Office, DSL
Mike Aderhold, Regional Supervisor, DFWP Region 4
Harold Wentland, Regional Supervisor, DFWP Region 6
Roger Fliger, Regional Supervisor, DFWP Region 5
State Historic Preservation Office
Margaret Beer, Montana Natural Heritage Program

X. References

Board of Oil and Gas Conservation, 1989, Programmatic Environmental Impact Statement on Oil and Gas Drilling and Production in Montana, (draft: Jan, 1989, final: Dec, 1989).

APPENDIX A: Nominated Tract Locations and Stipulations

10-28-92

STATE OF MONTANA
OIL & GAS LEASE SALE - DECEMBER 1, 1992

PRE-SALE APPLICATION REPORT

APP#	STIP	TWP	RGE	SEC	DESCRIPTION	ACRES
LESSOR: DEPT OF STATE LANDS						
BEAVERHEAD						
5023	1,2,3,4,6	11.0S	8.0W	20	N1/2 NE1/4, SW1/4 NE1/4, NW1/4 SE1/4	160.00
5024	1,2,3,4,6	11.0S	9.0W	22	ALL	640.00
5025	1,2,3,4	11.0S	9.0W	27	E1/2, N1/2 NW1/4, NW1/4 SW1/4, S1/2 SW1/4	520.00
5026	1,2,3,4	11.0S	9.0W	36	ALL	640.00
5027	1,2,3,4	12.0S	6.0W	10	E1/2, NE1/4 NW1/4	360.00
5028	1,2,3,4,7,8	12.0S	6.0W	16	ALL	640.00
5029	1,2,3,4,6	12.0S	6.0W	19	LOTS 1,2,3,4, E1/2 W1/2, E1/2	653.20
5030	1,2,3,4	12.0S	6.0W	20	W1/2	320.00
5031	1,2,3,4,6	12.0S	7.0W	24	ALL	640.00
5032	1,2,3,4,6	12.0S	7.0W	25	ALL	640.00
5033	1,2,3,4,5,6,7	12.0S	7.0W	35	SW1/4 NW1/4, SW1/4 SE1/4, E1/2 SE1/4 *	160.00
5034	1,2,3,4,6,7	12.0S	7.0W	36	ALL	640.00
5035	1,2,3,4,6	12.0S	8.0W	8	S1/2 N1/2, S1/2	480.00
5036	1,2,3,4,6	12.0S	8.0W	9	SW1/4	160.00
5037	1,2,3,5	12.0S	8.0W	10	W1/2 NE1/4, NE1/4 NW1/4 *	120.00
5038	1,2,3,5,6	12.0S	8.0W	13	NW1/4 NE1/4, N1/2 NW1/4, SW1/4 NW1/4, E1/2 SW1/4 *	240.00
5039	1,2,3,5	12.0S	8.0W	14	W1/2 NW1/4 *	80.00
5040	1,2,3,5,6	12.0S	8.0W	15	NE1/4 NE1/4 *	40.00
5041	1,2,3,4,6	12.0S	8.0W	16	ALL	640.00
5042	1,2,3,4,6	12.0S	8.0W	19	SW1/4 SE1/4	40.00
5043	1,2,3,4,6	12.0S	8.0W	23	W1/2 NW1/4, S1/2	400.00
5044	1,2,3,4	12.0S	8.0W	24	W1/2	320.00
5045	1,2,3,4,6	12.0S	8.0W	25	N1/2 SW1/4, SW1/4 SW1/4	120.00
5046	1,2,3,4	12.0S	8.0W	26	NE1/4 NE1/4	40.00
5047	1,2,3,4	12.0S	8.0W	36	ALL	640.00
5048	1,2,3,4,6	12.0S	9.0W	15	N1/2 NE1/4, NW1/4, NW1/4 SW1/4, SE1/4 SW1/4, SE1/4	480.00
5049	1,2,3,4,6,9	12.0S	9.0W	16	ALL	640.00
5050	1,2,3,4,6	12.0S	9.0W	21	E1/2, NW1/4, N1/2 SW1/4, SE1/4 SW1/4	600.00
5051	1,2,3,4,6	12.0S	9.0W	36	ALL	640.00
5052	1,2,3,4,6	13.0S	7.0W	1	S1/2 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4	240.00
5053	1,2,3,4,6	13.0S	7.0W	2	LOTS 1,2, S1/2 NE1/4, S1/2 SW1/4, NW1/4 SE1/4	282.10
5054	1,2,3,5	13.0S	7.0W	3	S1/2 SW1/4 *	80.00
5055	1,2,3,5	13.0S	7.0W	4	S1/2 S1/2 *	160.00
5056	1,2,3,5	13.0S	7.0W	9	NW1/4 NE1/4, SE1/4 NE1/4, N1/2 SW1/4 *	160.00
5057	1,2,3,5	13.0S	7.0W	11	S1/2 NW1/4, SW1/4 *	240.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION	ACRES
5058	1,2,3,4,6	13.OS	7.OW	12	SE1/4 SE1/4	40.00
5059	1,2,3,4,6	13.OS	7.OW	13	NE1/4 NE1/4, S1/2 NE1/4	120.00
5060	1,2,3,4,7	13.OS	7.OW	16	ALL	640.00
5061	1,2,3,4,6	13.OS	7.OW	27	NW1/4 NW1/4	40.00
5062	1,2,3,4	13.OS	7.OW	30	LOTS 3,4, N1/2 NE1/4, SW1/4 NE1/4, E1/2 NW1/4	273.83
5063	1,2,3,4	13.OS	8.OW	16	ALL	640.00
5064	1,2,3,5	13.OS	8.OW	19	LOTS 3,4, E1/2 SW1/4 *	154.10
5065	1,2,3,4	13.OS	8.OW	24	S1/2	320.00
5066	1,2,3,4	13.OS	8.OW	25	N1/2	320.00
5067	1,2,3,5	13.OS	8.OW	30	LOTS 1,2, E1/2 NW1/4 *	154.41
5068	1,2,3,4,5,6	13.OS	8.OW	36	ALL *	640.00
5069	1,2,3,4,9	13.OS	9.OW	14	E1/2 E1/2	160.00
5070	1,2,3,4	13.OS	9.OW	15	S1/2 NW1/4, W1/2 SW1/4	160.00
5071	1,2,3,4,6	13.OS	9.OW	16	ALL	640.00
5072	1,2,3,5	13.OS	9.OW	25	NE1/4 *	160.00
5073	1,2,3,4	13.OS	9.OW	28	W1/2 NW1/4, SW1/4	240.00
5074	1,2,3,4,6,10	13.OS	9.OW	29	E1/2, E1/2 NW1/4, SW1/4	560.00
5075	1,2,3,4,6,10	13.OS	9.OW	30	NW1/4 SE1/4, S1/2 SE1/4	120.00
5076	1,2,3,4	13.OS	9.OW	31	NW1/4 SE1/4, S1/2 SE1/4	120.00
5077	1,2,3,4	13.OS	9.OW	33	NW1/4, NW1/4 NE1/4, S1/2 NE1/4, S1/2	600.00
5078	1,2,3,5	13.OS	9.OW	36	ALL *	640.00
5084	1,2,3,4	14.OS	8.OW	16	LOTS 1,2,3,4,5,6,7, W1/2 NE1/4, NW1/4, N1/2 SW1/4, NW1/4 SE1/4	644.18
5085	1,2,3,4,11	14.OS	8.OW	19	LOTS 5,6,7, SE1/4 SW1/4	162.94
5086	1,2,3,4,6,11	14.OS	8.OW	28	NW1/4 SW1/4, S1/2 SW1/4	120.00
5087	1,2,3,4,11	14.OS	8.OW	29	SW1/4 NW1/4, S1/2	360.00
5088	1,2,3,4,6,11	14.OS	8.OW	30	LOTS 1,2,3,4, S1/2 NE1/4, SE1/4 NW1/4, E1/2 SW1/4, SE1/4	526.68
BLAINE						
5019		24.ON	20.OE	36	ALL - UNDIVIDED 1/8 W.I. IN LEASE #12,660-71. SEE ATTACHED INFORMATION SHEET.	638.40
5001	1,2,3,5	33.ON	18.OE	16	N1/2, W1/2 SW1/4, E1/2 SE1/4 *	480.00
5002	1,2,3,5	33.ON	18.OE	25	E1/2 SW1/4, W1/2 SE1/4 *	160.00
5003	1,2,3,4	33.ON	18.OE	28	SE1/4	160.00
5004	1,2,3,5	33.ON	18.OE	35	SE1/4 *	160.00
5005	1,2,3,4	33.ON	19.OE	5	LOTS 3,4, S1/2 NW1/4, SW1/4	317.87
5006	1,2,3,4,5	33.ON	19.OE	8	W1/2 *	320.00
5007	1,2,3,5	33.ON	19.OE	16	ALL *	640.00
5008	1,2,3,5	33.ON	19.OE	21	NW1/4 *	160.00
CARTER						
5022	1,2,3,4	1.ON	61.OE	36	ALL	640.00

APP#	STIP	TWP	RGE	SEC	DESCRIPTION	ACRES
DANIELS						
5009	1,2,3,4	34.ON	46.OE	19	LOT 1, E1/2 NW1/4, E1/2 NE1/4	197.79
5010	1,2,3,4	34.ON	46.OE	20	NW1/4	160.00
5011	1,2,3,4	34.ON	46.OE	30	LOTS 1,2, E1/2 NW1/4, NE1/4 (N1/2)	315.76
5012	1,2,3,4	35.ON	51.OE	16	ALL	640.00
5020	1,2,3,4,5	36.ON	47.OE	1	LOTS 1,2,3, S1/2 NE1/4, SE1/4 NW1/4, N1/2 SE1/4, SE1/4 SE1/4 *	348.27
5021	1,2,3,5	36.ON	47.OE	12	E1/2 NE1/4, SE1/4 *	240.00
5093	1,2,3,4	37.ON	47.OE	34	E1/2, SE1/4 NW1/4, SW1/4	520.00
5094	1,2,3,4,5	37.ON	47.OE	35	N1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4 *	160.00
HILL						
5013	1,2,3,5	30.ON	13.OE	29	NW1/4 NE1/4 *	40.00
5014	1,2,3,4	31.ON	12.OE	36	ALL	640.00
5015	1,2,3,4	32.ON	16.OE	36	ALL	640.00
MUSSELSHELL						
5016	1,2,3,4	11.ON	30.OE	22	SE1/4	160.00
RICHLAND						
5089	1,2,3,4	24.ON	59.OE	16	E1/2	320.00
ROSEBUD						
5017	1,2,3,4	11.ON	33.OE	6	LOTS 1,2, S1/2 NE1/4, SE1/4 (E1/2)	320.00
SHERIDAN						
5090	1,2,3,4	35.ON	58.OE	21	SE1/4	160.00
5091	1,2,3,4	35.ON	58.OE	28	NE1/4	160.00
TOOLE						
5092	1,2,3,4	34.ON	1.OE	16	ALL	640.00
5018	1,2,3,4	35.ON	2.OE	34	SE1/4	160.00

STIPULATIONS

1. Lessee shall notify and obtain approval from the Department of State Lands prior to constructing well pads, roads, powerlines, and related facilities that may require surface disturbance on the tract. Lessee shall comply with any mitigation measures stipulated in the Department's approval. Lessee shall also notify and obtain approval from the Department of State Lands prior to plugging a well on State Lands.

Prior to the drilling of any well, Lessee shall send one copy of the well prognosis, including Form 22 "Application for Permit" to the Department. After a well is drilled and completed, Lessee shall send one copy of all logs run and Form 4A "Completion Report", with attached geologic report, if any, to the Department. A copy of the Form 2 "Sundry Notice and Report of Wells" or other appropriate Board of Oil and Gas Conservation form shall be sent to the Department whenever any subsequent change in well status, operator, or NGPA classification is intended or has occurred.
2. The Department will complete an initial review for cultural resources of the area intended for disturbance and may require a cultural resources inventory. Based on the results of the inventory, the Department may restrict surface activity for the purpose of protecting significant archaeological or historic resources located on the tract.
3. The lessee shall be responsible for controlling any noxious weeds introduced by Lessee's activity on State-owned land and shall prevent or eradicate the spread of those noxious weeds onto land adjoining the leased premises.
4. The lessee is responsible to pay for all damages, including penalties and charges assessed by the ASCS on CRP lands, as a result of drilling and production on the tract. All damages will be assessed by the Department and paid directly to the State Land Department.
5. Lessee must contact the owner of the surface in writing at least 30 days prior to any surface activity. A copy of the correspondence shall be sent to the Mineral Lease Bureau, Montana Department of State Lands, Capitol Station, Helena MT 59620.
6. No activity shall be allowed within 100 feet of any perennial stream or lake without written approval from the Department.
7. Prior to cutting or removal of timber on these tracts for exploration or development related activities, the lessee shall notify the Department's Central Land Office, 8001 N. Montana Avenue, Helena, MT 59601.
8. Due to unstable soil conditions on these tracts, surface use may be restricted.
9. Due to existing surface uses (center pivots and Conservation Reserve Program) development on this tract will require special consideration. The lessee is required to contact the appropriate Area Office and the Department of State Lands in Helena three months prior to any activity.
10. Plant species of concern have been identified on or near this tract. A vegetation survey in areas of proposed activity may be required prior to disturbance. Identified rare plant species will be avoided, unless otherwise authorized by the Department.
11. To protect wildlife during periods important to their survival, surface occupancy or other activity shall be restricted from October 15 through May 15 of each year unless otherwise authorized in writing by the Department.

* Part or all of the tract is not state-owned surface.

Sight drafts will not be accepted. The State Board of Land Commissioners reserves the right to reject any and all bids. All payments are due within ten days after date of sale.

An Environmental Assessment is available upon request from the Department of State Lands, Capitol Station, Helena, MT 59620.

STATE BOARD OF LAND COMMISSIONERS

OFFERED FOR BID

**Undivided 1/8 Working Interest from surface to the base of the
Eagle formation in Lease No. 12,660-71
Township 24 North, Range 20 East
Section 36: All
638.40 acres, more or less
Blaine County**

An undivided 1/8 working interest from the surface of the earth to the base of the Eagle formation in State of Montana Lease No. 12,660-71 was acquired by the State through bankruptcy proceedings. The Department of State Lands will offer this interest for competitive bid at the September 1, 1992 lease sale. Minimum bid will be \$0.25 per acre. Since the successful bidder will be assuming the position of a working interest owner in an existing lease, no new lease will be issued. Instead, the Department will prepare an assignment of the 1/8 working interest from the State of Montana to the successful bidder.

Issued in 1971, this lease is past its primary term and is held by payment of \$1.00 per acre rental and a \$1.00 per acre shut-in royalty on the State 36-24-20, an Eagle formation gas well drilled in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of the section. Board of Oil and Gas Commission (BOGC) records show the well had an initial potential of 285 mcf/d upon completion in 1975. The well has been shut-in for pipeline connection from 1975 to the present.

Whiting-Park Production Partnership, Ltd. holds all other working interest in this lease. BOGC records show Whiting Petroleum is the operator of the well.

Please contact the Department of State Lands, Minerals Management Bureau, at (406)444-2074 for more information.

APPENDIX B: Example Stipulations for Oil and Gas Leasing.

Stipulations marked with (*) are placed on all leases.

Notification

- *A. Lessee shall notify and obtain approval from the Department of State Lands prior to constructing well pads, roads, powerlines, and related facilities that may require surface disturbance on the tract. Lessee shall comply with any mitigation measures stipulated in the Department's approval. Lessee shall also notify and obtain approval from the Department of State Lands prior to plugging a well on State Lands.

Prior to the drilling of any well, Lessee shall send one copy of the well prognosis, including Form 22 "Application for Permit" to the Department. After a well is drilled and completed, Lessee shall send one copy of all logs run and Form 4A "Completion Report", with attached geologic report, if any, to the Department. A copy of the Form 2 "Sundry Notice and Report of Wells" or other appropriate Board of Oil and Gas Conservation form shall be sent to the Department whenever any subsequent change in well status, operator, or NGPA classification is intended or has occurred.

Cultural

- *B. The Department will complete an initial review for cultural resources of the area intended for disturbance and may require a cultural resources inventory. Based on the results of the inventory, the Department may restrict surface activity for the purpose of protecting significant archaeological or historic resources located on the tract.

Weeds

- *C. The lessee shall be responsible for controlling any noxious weeds introduced by Lessee's activity on State-owned land and shall prevent or eradicate the spread of those noxious weeds onto land adjoining the leased premises.

CRP Land and Damages

- *D. The lessee is responsible to pay for all damages, including penalties and charges assessed by the ASCS on CRP lands, as a result of drilling and production on the tract. All damages will be assessed by the Department and paid directly to the State Land Department.

Sensitive Areas

- E. This lease includes areas that may be environmentally sensitive. Therefore, if the lessee intends to conduct any activities on the leased premises, the lessee shall submit to the Department of State Lands one copy of an Operating Plan or Amendment to an existing Operating Plan, describing in detail the proposed activities. No activities shall occur on the tract until the Operating Plan or Amendments have been approved in writing by the Commissioner of State Lands.

The Department shall review the Plan or Amendment and notify the lessee if the Plan or Amendment is approved or disapproved.

After an opportunity for an informal hearing with the lessee, surface activity may be denied or restricted on all or portions of any tract if the Commissioner determines in writing that the proposed surface activity will be detrimental to trust resources and is, therefore, not in the best interests of the trust.

Navigable Rivers

- F. This tract contains navigable river beds. Therefore, upon completion of a successful well or within 30 days of receipt of the Department's request to file an interpleader action, the lessee will file an interpleader action under Rule 22, M.R.Civ.P. in the Montana District Court in which the leased lands are located for all acreage within the lease in which the title is disputed. The lessee shall name all potential royalty claimants as defendants, and deposit with the clerk of District Court, pursuant to Section 25-8-101, MCA, an amount equal to the royalties attributable to all acreage to which title is disputed between two or more parties in an interest bearing account.

Surface not State Owned

- G. Lessee must contact the owner of the surface in writing at least 30 days prior to any surface activity. A copy of the correspondence shall be sent to the Mineral Lease Bureau, Montana Department of State Lands, Capitol Station, Helena, MT 59620.

No Surface Occupancy

- H. No surface occupancy shall be allowed on this tract unless otherwise approved in writing by the Commissioner of the Department of State Lands.

Existing Production Restrictions

- I. Lessee will need to make settlement for the value of the equipment with previous lessee. A copy of this settlement will be sent to the Department of State Lands for their records.

Existing Facilities

- J. It is understood that this tract has existing facilities, wells, and surface impoundments that have been identified as an environmental concern. The new lessee shall be responsible for new facilities and new surface impoundments only, and shall be responsible for only those wells entered by the lessee or his agents. No wells shall be entered until a change of operator has been filed with, and approved by, the Board of Oil and Gas Conservation.

Drainage Occurring

- K. It is the opinion of the Department of State Lands that drainage is occurring on the land described in this lease and that if a well is not drilled within two years after this lease is issued the department will consider cancellation of the lease for failure to drill an offset well.

Forested Tracts - Timber

- L. Prior to the cutting or removal of timber on these tracts for exploration or development related activities, the lessee shall notify the appropriate State Lands area office.

Wildlife Restrictions

- M. To protect wildlife during periods important to their survival, surface occupancy or other activity shall be restricted from March 15 through June 15 of each year unless otherwise authorized in writing by the Department.

- N. Potential wildlife conflicts have been identified for this tract. The lessee shall contact the regional Fish, Wildlife & Parks office in their area for advise on alleviating any possible conflicts.

Miscellaneous Restrictions

- O. No activity shall be allowed within 100 feet of any perennial stream, without approval of the Department.
- P. Due to unstable soil conditions on these tracts, surface use may be restricted.
- Q. Due to existing surface uses (center pivots and Conservation Reserve Program) development on this tract will require special consideration. The lessee is required to contact the appropriate Area Office and the Department of State Lands in Helena three months prior to any activity.
- R. Plant species of concern have been identified on or near this tract. A vegetation survey in areas of proposed activity will be required prior to disturbance. Identified rare plant species will be avoided, unless otherwise authorized by the Department.

APPENDIX C: Comments Received Before Deadline

RECEIVED OCT - 4 1992

DEPARTMENT OF STATE LANDS



STAN STEPHENS, GOVERNOR

CAPITOL STATION

STATE OF MONTANA

(406) 444-2074

1625 ELEVENTH AVENUE
HELENA, MONTANA 59620

October 1, 1992

*Carole - Please
review for CRP
contracts and
return to Gary.*

cd

MEMORANDUM

TO: Craig Roberts, Area Manager, NELO
Mark Ahner, Area Manager, CLO
Dwayne Andrews, Area Manager, ELO
Don Kendall, Area Manager, SLO

FROM: Gary Weissmann, Hydrologist, Minerals Management Bureau *Gary*

RE: December 1, 1992 Oil and Gas Lease Sale

Attached is the list of tracts in your area. Please let me know if there are any concerns which may require stipulations on the lease. We also need to know if any of these tracts are in CRP so that paperwork and payments can be adjusted.

Just a reminder: Our attorneys have advised us that the Department is responsible for MEPA review on non-state surface when surface impacts will occur as the result of a DSL oil and gas lease. Therefore, your comments on wildlife will be requested for all tracts appearing on DSL's oil and gas lease list regardless of surface ownership.

Please return your comments by October 23, 1992.

Thank you for your time.

GW/ra

Attachment

STATE LANDS

Oct 13 2 20 PM '92

RECEIVED

09-29-92

STATE OF MONTANA
OIL & GAS LEASE SALE - DECEMBER 1, 1992

PRE-SALE APPLICATION REPORT

APP#	STIP	TWP	RGE	SEC	DESCRIPTION	ACRES
LESSOR: DEPT OF STATE LANDS						
BEAVERHEAD CLO, FWP-3						
5023		11.0S	8.0W	20	N1/2 NE1/4, SW1/4 NE1/4, NW1/4 SE1/4	160.00
5024		11.0S	9.0W	22	ALL	640.00
5025		11.0S	9.0W	27	E1/2, N1/2 NW1/4, NW1/4 SW1/4, S1/2 SW1/4	520.00
5026		11.0S	9.0W	36	ALL	640.00
5027		12.0S	6.0W	10	E1/2, NE1/4 NW1/4	360.00
5028		12.0S	6.0W	16	ALL	640.00
5029		12.0S	6.0W	19	LOTS 1,2,3,4, E1/2 W1/2, E1/2	653.20
5030		12.0S	6.0W	20	W1/2	320.00
5031		12.0S	7.0W	24	ALL	640.00
5032		12.0S	7.0W	25	ALL	640.00
5033	-NO STATE SURFACE IN S.W.1/4	12.0S	7.0W	35	SW1/4 NW1/4, SW1/4 SE1/4, E1/2 SE1/4	160.00
5034		12.0S	7.0W	36	ALL	640.00
5035		12.0S	8.0W	8	S1/2 N1/2, S1/2	480.00
5036		12.0S	8.0W	9	SW1/4	160.00
5037	NO STATE SURFACE	12.0S	8.0W	10	W1/2 NE1/4, NE1/4 NW1/4	120.00
5038	NO STATE SURFACE	12.0S	8.0W	13	NW1/4 NE1/4, N1/2 NW1/4, SW1/4 NW1/4, E1/2 SW1/4	240.00
5039	NO STATE SURFACE	12.0S	8.0W	14	W1/2 NW1/4	80.00
5040	NO STATE SURFACE	12.0S	8.0W	15	NE1/4 NE1/4	40.00
5041		12.0S	8.0W	16	ALL	640.00
5042		12.0S	8.0W	19	SW1/4 SE1/4	40.00
5043		12.0S	8.0W	23	W1/2 NW1/4, S1/2	400.00
5044		12.0S	8.0W	24	W1/2	320.00
5045		12.0S	8.0W	25	N1/2 SW1/4, SW1/4 SW1/4	120.00
5046		12.0S	8.0W	26	NE1/4 NE1/4	40.00
5047		12.0S	8.0W	36	ALL	640.00
5048		12.0S	9.0W	15	N1/2 NE1/4, NW1/4, NW1/4 SW1/4, SE1/4 SW1/4, SE1/4	480.00
5049		12.0S	9.0W	16	ALL	640.00
5050		12.0S	9.0W	21	E1/2, NW1/4, N1/2 SW1/4, SE1/4 SW1/4	600.00
5051		12.0S	9.0W	36	ALL	640.00
5052		13.0S	7.0W	1	S1/2 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4	240.00
5053		13.0S	7.0W	2	LOTS 1,2, S1/2 NE1/4, S1/2 SW1/4, NW1/4 SE1/4	282.10
5054	NO STATE SURFACE	13.0S	7.0W	3	S1/2 SW1/4	80.00
5055	NO STATE SURFACE	13.0S	7.0W	4	S1/2 S1/2	160.00
5056	NO STATE SURFACE	13.0S	7.0W	9	NW1/4 NE1/4, SE1/4 NE1/4, N1/2 SW1/4	160.00
5057	NO STATE SURFACE	13.0S	7.0W	11	S1/2 NW1/4, SW1/4	240.00

10-9-82

*Gary, two tracts with C.R.P.
Carole*

APP#	STIP	TWP	RGE	SEC	DESCRIPTION	ACRES
5058		13.0S	7.0W	12	SE1/4 SE1/4	40.00
5059		13.0S	7.0W	13	NE1/4 NE1/4, S1/2 NE1/4	120.00
5060		13.0S	7.0W	16	ALL	640.00
5061		13.0S	7.0W	27	NW1/4 NW1/4	40.00
5062		13.0S	7.0W	30	LOTS 3,4, N1/2 NE1/4, SW1/4 NE1/4, E1/2 NW1/4	273.83
5063		13.0S	8.0W	16	ALL	640.00
5064	NO STATE SURFACE	13.0S	8.0W	19	LOTS 3,4, E1/2 SW1/4	154.10
5065		13.0S	8.0W	24	S1/2	320.00
5066		13.0S	8.0W	25	N1/2	320.00
5067	NO STATE SURFACE	13.0S	8.0W	30	LOTS 1,2, E1/2 NW1/4	154.41
5068	NO STATE SURFACE IN EZ	13.0S	8.0W	36	ALL	640.00
5069		13.0S	9.0W	14	E1/2 E1/2	160.00
5070		13.0S	9.0W	15	S1/2 NW1/4, W1/2 SW1/4	160.00
5071		13.0S	9.0W	16	ALL	640.00
5072	NO STATE SURFACE	13.0S	9.0W	25	NE1/4	160.00
5073		13.0S	9.0W	28	W1/2 NW1/4, SW1/4	240.00
5074		13.0S	9.0W	29	E1/2, E1/2 NW1/4, SW1/4	560.00
5075		13.0S	9.0W	30	NW1/4 SE1/4, S1/2 SE1/4	120.00
5076		13.0S	9.0W	31	NW1/4 SE1/4, S1/2 SE1/4	120.00
5077		13.0S	9.0W	33	NW1/4, NW1/4 NE1/4, S1/2 NE1/4, S1/2	600.00
5078	NO STATE SURFACE	13.0S	9.0W	36	ALL	640.00
5079		14.0S	7.0W	3	S1/2	320.00
5080		14.0S	7.0W	9	ALL	640.00
5081		14.0S	7.0W	10	N1/2, SW1/4, N1/2 SE1/4	560.00
5082		14.0S	7.0W	15	SW1/4 SW1/4, E1/2 SW1/4, SE1/4	280.00
5083		14.0S	7.0W	16	ALL	640.00
5084		14.0S	8.0W	16	LOTS 1,2,3,4,5,6,7, W1/2 NE1/4, NW1/4, N1/2 SW1/4, NW1/4 SE1/4	644.18
5085		14.0S	8.0W	19	LOTS 5,6,7, SE1/4 SW1/4	162.94
5086		14.0S	8.0W	28	NW1/4 SW1/4, S1/2 SW1/4	120.00
5087		14.0S	8.0W	29	SW1/4 NW1/4, S1/2	360.00
5088		14.0S	8.0W	30	LOTS 1,2,3,4, S1/2 NE1/4, SE1/4 NW1/4, E1/2 SW1/4, SE1/4	526.68
BLAINE FIELD FWP-6						
✓ 5019	Lease 2548	24.0N	20.0E	36	ALL - UNDIVIDED 1/8 W.I. IN LEASE #12,660-71. SEE ATTACHED INFORMATION SHEET.	638.40
5001	NO STATE SURFACE	33.0N	18.0E	16	N1/2, W1/2 SW1/4, E1/2 SE1/4	480.00
5002	NO STATE SURFACE	33.0N	18.0E	25	E1/2 SW1/4, W1/2 SE1/4	160.00
✓ 5003	Lease 918b	33.0N	18.0E	28	SE1/4	160.00
5004	NO STATE SURFACE	33.0N	18.0E	35	SE1/4	160.00
✓ 5005	Lease 6667	33.0N	19.0E	5	LOTS 3,4, S1/2 NW1/4, SW1/4	317.87
CRP 5006	NO STATE SURFACE ON 280 AC IN W/2	33.0N	19.0E	8	W1/2	320.00
5007	NO STATE SURFACE	33.0N	19.0E	16	ALL	640.00
5008	NO STATE SURFACE	33.0N	19.0E	21	NW1/4	160.00

5006 has 14.9 acres CRP on State Lease 8069

APP#	STIP	TWP	RGE	SEC	DESCRIPTION	ACRES
CARTER ELO; FWP-7						
5022		1.0N	61.0E	36	ALL	640.00
DANIELS NELO; FWP-6						
✓5009	Lease 2959	34.0N	46.0E	19	LOT 1, E1/2 NW1/4, E1/2 NE1/4	197.79
✓5010	Lease 1562	34.0N	46.0E	20	NW1/4	160.00
✓5011	Lease 2958	34.0N	46.0E	30	LOTS 1,2, E1/2 NW1/4, NE1/4 (N1/2)	315.76
✓5012	Lease 7413	35.0N	51.0E	16	ALL	640.00
✓5020	NO STATE SURFACE IN E2NE4	36.0N	47.0E	1	LOTS 1,2,3, S1/2 NE1/4, SE1/4 NW1/4, N1/2 SE1/4, SE1/4 SE1/4	348.27
✓5021	NO STATE SURFACE	36.0N	47.0E	12	E1/2 NE1/4, SE1/4	240.00
✓5093	Lease 2849, 6.10 CR Paces	37.0N	47.0E	34	E1/2, SE1/4 NW1/4, SW1/4	520.00
✓5094	NO STATE SURFACE IN NW-NE, NE SE	37.0N	47.0E	35	N1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4	160.00
HILL NELO; FWP-6						
5013	NO STATE SURFACE	30.0N	13.0E	29	NW1/4 NE1/4	40.00
✓5014	Lease 7733	31.0N	12.0E	36	ALL	640.00
✓5015	Lease 3992	32.0N	16.0E	36	ALL	640.00
MUSSELSHELL SW; FWP-5						
5016		11.0N	30.0E	22	SE1/4	160.00
RICHLAND ELO; FWP-6						
5089		24.0N	59.0E	16	E1/2	320.00
ROSEBUD ELO; FWP-7						
5017		11.0N	33.0E	6	LOTS 1,2, S1/2 NE1/4, SE1/4 (E1/2)	320.00
SHERIDAN NELO; FWP-6						
✓5090	Lease 3360	35.0N	58.0E	21	SE1/4	160.00
✓5091	" "	35.0N	58.0E	28	NE1/4	160.00
TOOLE CLO; FWP-4						
5092		34.0N	1.0E	16	ALL	640.00
5018		35.0N	2.0E	34	SE1/4	160.00

DILLON UNIT COMMENTS

Restrictions from listing in appendix

20	11S	08W	Willow Cr. runs through NE $\frac{1}{4}$ NE $\frac{1}{4}$ - restriction O
22	11S	09W	spring in SW $\frac{1}{4}$ NE $\frac{1}{4}$ - restriction 100'
27			OK
36			OK
10	12S	06W	OK
16			Timber - restriction L; steep slopes, slumps - restriction P
19			Basin Cr. - restriction O
20			OK
24	12S	07W	Basin Cr. - restriction O
25			Basin Cr. - restriction O
35			Basin Cr. - restriction O; Timber - restriction L
36			Basin Cr. - restriction O; Timber - restriction L
08	12S	08W	Big Spring Gul. - restriction O
09			Big Spring Gul. - restriction O
10			OK
13			Sage Cr. - restriction O
14			
15			Sage Cr. - restriction O
16			Big Spring Gul. - restriction O
19			Hall Spring - restriction O
23			Sage Cr. & Big Spring Gul. - restriction O
24			OK
25			Basin Cr. - restriction O
26			OK
36			OK

15 12S 09W Ashbough Canyon & Little Ashbough - restriction O
 16 Ashbough Canyon - restriction O; center pivot -
 restriction Q
 21 Ashbough Canyon & Little Ashbough - restriction O
 36 drainage - restriction O
 01 13S 07W Little Basin Cr. - restriction O
 02 Basin & Little Basin Cr. - restriction O
 03 OK
 04 OK - no surface (surface BLM) - restriction G
 09 OK - no surface (surface BLM) - restriction G
 11 OK - no surface (surface BLM) - restriction G
 12 wetland - restriction O
 13 wetland - restriction O
 16 timber - restriction L
 27 irrigation ditch, spring - restriction Q, *- not needed*
 restriction O
 30 irrigation ditch - restriction Q *- not needed*
 16 13S 08W OK
 19 restriction G
 24 OK
 25 OK
 30 restriction G
 36 Red Rock River - restriction O; restriction G
 14 13S 09W buildings, buried irrigation pipeline - *may have surface irrigation*
 restriction Q *system.*
 15 Interstate, powerline & substation, seeded area,
 county road - restriction Q *not needed*

16 13S 09W Big Sheep Cr. - restriction O; county road,
powerline - restriction G

25 restriction G

28 OK

29 pipeline - restriction Q; Big Sheep Cr. - ^{not needed} ~~restriction O~~

30 Big Sheep Cr. - restriction O; restriction Q ^{not needed}

31 OK

33 pipeline & stocktanks - restriction Q

36 restriction G

16 14S 08W powerline, Lima water supply, wells, tank &
pipeline - restriction Q

19 OK

28 Alder Cr. - restriction O

29 OK

30 road - restriction Q; ^{not needed} utilities easement -
restriction O

* Restriction Q - not needed in some cases if improvements are easily avoided.

MESSAGE/REPLY

Recorder from COMTEX / (800) 343-8180

38577

TO Gary Weissmann, Hydrogeologist
Minerals Management Bureau

FROM DEPARTMENT OF STATE LANDS
EASTERN LAND OFFICE
P. O. BOX 1794
MILES CITY, MT 59301

RECEIVED

Division _____

OCT 08 1992

Date 10 / 08 / 92

SUBJECT

STATE LANDS

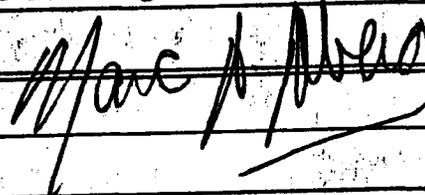
MESSAGE

Gary:

Regarding the list of oil and gas leases in our area, Carter County #5022 is okay, Rosebud County #5017 is okay, and Richland County #5089 is okay except for 21 acres of hay land in the center of the E2E2. If this can be avoided, ELO has no problems or concerns.

Marc A. Aberg, Land Use Specialist

Signed



REPLY

Signed _____

Date ____ / ____ / ____

SEND PARTS 1 AND 2 WITH CARBON INTACT-PART 3 WILL BE RETURNED WITH REPLY

3 PART

**Montana Department
of
Fish, Wildlife & Parks**



RECEIVED

OCT 06 1992

STATE LANDS

Rural Route 1-4210
Glasgow, MT 59230
October 5, 1992

Gary Weissman, Hydrologist
Minerals Management Bureau
Lands Division
1625 Eleventh Avenue
Helena, MT 59620

Dear Mr. Weissman:

My comments pertain to the December 1, 1992 oil and gas lease sale stated in your September 30, 1992 letter. My comments are pertinent to those sites in Blaine, Daniels, Richland, Sheridan and Hill counties.

It is not possible to perform a MEPA Review or conduct the on-site investigations needed to accurately assess potential impacts of these activities on wildlife by October 23, 1992. Generally, I recommend no surface occupancy or other activity be allowed on any of the sites during the March 1 through July 1 period. This will help protect breeding and nesting upland game birds, and fawning and early rearing big game animals. If the activity is to take place exclusively on cultivated cropland, the recommendations do not apply.

Thank you for requesting my input.

Sincerely,

Harold J. Wentland
Region 6 Wildlife Manager

HJW/je
cc: Steve Knapp

DEPARTMENT OF STATE LANDS



STAN STEPHENS, GOVERNOR

CAPITOL STATION

STATE OF MONTANA

(406) 444-2074

1625 ELEVENTH AVENUE
HELENA, MONTANA 59620

October 13, 1992

MEMORANDUM

TO: Gary Weissmann, Hydro-Geologist,
Minerals Management Bureau

FROM: Dori Passmann, Archaeologist, Land Management Section 

RE: December 1, 1992 Oil & Gas Lease Sale

Following are the recorded and unverified sites known to be on some of the lease tracts. Since there is only one stipulation for cultural resources, this information is provided for future reference.

Application	Legal	Comment
5033	12S-7W-35	24BE917, maybe on state in SE/4
5034	12S-7W-36	unrecorded historic material on ridge
5039	12S-8W-14	24BE962, maybe on state in NW/4
5053	13S-7W-2	24BE667
5012	35N-51E-16	24DN56
5015	32N-16E-36	24HL328
5089	24N-59E-16	unrecorded foundation in SE/4
5017	11N-33E-6	unrecorded homestead in NE/4

Please let me know if I can be of further assistance.



MONTANA NATURAL HERITAGE PROGRAM

1515 East Sixth Avenue
Helena, Montana 59620
(406) 444-3009

October 9, 1992

Gary Weissmann
Department of State Lands
Minerals Management Bureau
Lands Division
1625 Eleventh Avenue
Helena, MT 59620

Dear Gary,

This is in response to your request for information on sensitive species within the list of nominated tracts you provided (RE: December 1, 1992 Oil & Gas Lease Sale.) Enclosed are 12 Element Occurrence Records, and one Managed Area Basic Record for the areas outlined below. Your "App." number is included in the upper right corner of each record. The Managed Area Record provides location and management information for a Waterfowl Production Area adjacent one of the tract locations. The Element Occurrence Records are described in an explanatory sheet which is enclosed. I have included all locations within 1 mile of the nominated tracts. The other areas currently have no recorded occurrences of sensitive species.

<u>App. #</u>	<u># of reports</u>
5037	2
5062	1
5069	1
5074/5075	3
5076	1
5082/5083	3
5086	1
5090	1

Please remember that the results of a data search by the Montana Natural Heritage Program are not intended as a final statement on sensitive species within a given area, or as a substitute for on-site surveys needed for environmental assessments. In addition, some of the plant community records we track represent communities which are widespread in Montana. We include certain

locations as sensitive records, however, because they represent exemplary, relatively pristine examples of certain community types, or because they have been established as study plots.

Sincerely,

Cory Craig
Cory Craig
Assistant Data Manager



MONTANA NATURAL HERITAGE PROGRAM

1515 East Sixth Avenue
Helena, Montana 59620
(406) 444-3009

EXPLANATION OF ELEMENT OCCURRENCE REPORTS

Since 1985, The Montana Natural Heritage Program (MTNHP) has been compiling and maintaining an inventory of the elements of biological diversity in Montana. The inventory includes plant species, animal species, and plant communities that are rare, endemic, disjunct, threatened, or endangered throughout their range in Montana, vulnerable to extirpation from Montana, or in need of further research.

Individual species and communities are referred to as "elements." An "element occurrence" (EO) generally falls in one of the following categories:

1. Plants - A documented location of a plant population. In some instances, adjacent, spatially separated clusters are considered subpopulations, and are grouped as one occurrence (e.g., the subpopulations occur in ecologically similar habitats, and are within approximately one air mile of one another).
2. Animals With Limited Mobility (most invertebrates, amphibians, reptiles, small mammals, and most fish) - The location of a specimen collection or a verified sighting; assumed to represent a breeding population. Additional collections and/or sightings are appended to the initial EO.
3. Mobile/Migratory Animals (most birds and larger mammals, some fish) - Breeding areas (including nesting territories, dens, and leks) and significant aggregation sites (winter feeding areas, staging grounds, or hibernacula).
4. Communities - All contiguous, high quality habitat as defined by physical and biological features.

The quantity and quality of data contained in Heritage reports is dependent on the research and observations of many individuals and organizations. Heritage reports summarize information known to the Program at the time of a request. They are not intended as a final statement on the elements or areas being considered, or as a substitute for on-site surveys required for environmental assessments.

* * *

Certain codes and abbreviations are used in element occurrence reports. Although most of these are very straightforward, the following field-by-field explanation should answer most questions.

Name: Plant and animal scientific names consisting of genus and species, with subspecific or varietal names if applicable. Plant associations and community types that existed in the pre-settlement landscape of Montana are named using the scientific names of dominant overstory and understory species.

Common name: Common name of species or community, often as given in regional floras and field guides.

Global rank and State rank: Elements are evaluated and ranked by the Heritage Program on the basis of their global (range-wide) status, and their state-wide status. These ranks are used to determine protection and data collection priorities, and are revised as new information becomes available.

A scale of 1 (critically imperiled) to 5 (demonstrably secure) is used, and each species is assigned the appropriate combination of global and state ranks.

Example: the common loon is G5 / S3 (i.e., species is demonstrably secure globally; in Montana is found within a restricted range).

Global and state ranks are assigned according to the following standardized definitions:

Global or State Rank		Definition (G = Range-wide; S = Montana)
G1	S1	Critically imperiled because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction.
G2	S2	Imperiled because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range.
G3	S3	Either very rare and local throughout its range, or found locally (even abundantly at some of its locations) in a restricted range, or vulnerable to extinction throughout its range because of other factors; in the range of 21 to 100 occurrences.
G4	S4	Apparently secure, though it may be quite rare in parts of its range, especially at the periphery.
G5	S5	Demonstrably secure, though it may be quite rare in parts of its range, especially at the periphery.
GU	SU	Possibly in peril, but status uncertain; more information needed.

GH SH Historically known; may be rediscovered.
GX SX Believed to be extinct; historical records only,
continue search.

Other codes:

Q Taxonomic questions or problems involved, more information
needed; appended to the global rank.
T Rank for a subspecific taxon (subspecies or variety);
appended to the global rank for the full species.

Forest Service status: The status of species in Montana as defined by
the U.S. Forest Service manual (2670.22). These taxa are listed as
such by the Regional Forester (Northern Region), and indicate their
status on Montana National Forests.

Federal status: The status of species as defined by the U.S. Fish and
Wildlife Service:

LE Listed Endangered
LT Listed Threatened
P Proposed E or T
C1 Notice of Review, Category 1 (substantial biological
information on file to support the appropriateness of
proposing to list as endangered or threatened).
C2 Notice of Review, Category 2 (current information indicates
that proposing to list as endangered or threatened is
possibly appropriate, but substantial biological information
is not on file to support an immediate ruling).
C2* Category 2, and the taxon is possibly extinct.
3A Taxa for which the USF&WS has persuasive evidence of
extinction.
3B Names that, on the basis of current taxonomic understanding,
do not represent taxa meeting the Endangered Species Act's
definition of "species."
3C Taxa that have proven to be more abundant or widespread than
was previously believed, and/or those that are not subject
to any identifiable threat.

Element occurrence code: Heritage Program taxonomic code assigned to
each element, along with an identifier for each occurrence.

Element occurrence type: Further definition of special types of
occurrences, if applicable (e.g., state champion tree, staging
ground, winter feeding area, bat hibernacula).

Survey site name: Name of general area where the element is located;
often a geographical reference.

EO rank: Based on recent field work by a knowledgeable individual,
the EO rank summarizes an evaluation of the quality, condition,
viability, and defensibility of the element occurrence.

A = excellent
B = good
C = marginal
D = poor

X = extirpated
H = historical
E = extant
I = introduced
Blank = unknown

EO rank comments: Comments which justify the assigned EO rank.

County: County or counties containing the element occurrence.

USGS quadrangle: Name of the 7.5 or 15-minute USGS topographic map(s) where element occurrence can be located.

Township, range & section: Township, range and section of the centroid of the element occurrence.

Precision: The degree of location accuracy:

- S = Second: precision of location is to within a three-second radius
- M = Minute: precision of location is to within a one-minute radius (approximately 1.5 miles)
- G = General: precision to within approximately 5 miles, or to place name only.
- U = Unmappable

Township-range comments: This field lists additional areas not covered by the township-range and section fields, and specifies the location of the element occurrence within a section. For example: "N2, 8, 9" indicates that the EO is located in the north half (N2) of the section indicated, and extends into sections 8 and 9.

Survey date: Date of the most recent field survey.

First observation: The year in which the element occurrence was first reported from this site. This is the same as "last observation" if the EO is based on only one report.

Last observation: Date at which the element was last observed extant at this site (not necessarily the date site was last visited).

Elevation: Elevation, in feet, of the centroid of the element occurrence. Appears blank if unknown.

Slope/aspect: Steepness and compass direction of element occurrence site.

Size: Size (in acres) of element occurrence. Appears as 1 if one acre or less, 0 or blank if unknown.

Location: Location of (or directions to) element occurrence.

Element occurrence data: Information on the element occurrence, such as numbers, size, condition, viability, and characteristics. For plant communities, this includes (if available) information on the species present and their percent cover.

General site description: A general description of the area where the element occurrence is found.

Land owner/manager: The ownership or management of the area in which the element occurs. Areas are listed from the smallest designation to the largest.

Comments: An open field for information which does not fall into any other category. For special plants, this field often contains a reference to an herbarium voucher specimen.

Information source: The best source of additional information on this element occurrence.

* * *

Please remember that this report is a summary of information, and additional data are available on most element occurrences.

If you have questions, feel free to contact the Montana Natural Heritage Program staff.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: TOWNSENDIA FLORIFER
Common Name: SHOWY TOWNSENDIA

App. # 5037

Global rank: G5 Forest Service status:
State rank: S1 Federal Status:

- Located > 2 miles from lease tract

Element occurrence code: PDAST9C080.002
Element occurrence type:

Survey site name: WHITE HILLS
EO rank:
EO rank comments:

County: BEAVERHEAD

USGS quadrangle: ROCK ISLAND RANCH

Township 011S, Range 008W, Section 25
Township-range comments: W2

Precision: M

Survey date: 1985-06-10	Elevation: 6500
First observation: 1985	Slope/aspect:
Last observation: 1985-06-10	Size (acres): 0

Location:

BUTTES JUST S OF WHITE HILLS, 17 KM NE OF KIDD (NOTE: TOWNSHIP GIVEN IN RECORD IS T8S, WHICH IS AWAY FROM THE WHITE HILLS).

Element occurrence data:

UNCOMMON; ONLY 5 PLANTS OBSERVED.

General site description:

IN SANDY, CALCAREOUS SOIL ON STEEP, SOUTH-FACING, ERODING SLOPES; WITH PENSTEMON ARIDUS, LESQUERELLA ALPINA, GILIA SPICATA, ERIQONUM MANCUM, ARTEMISIA TRIDENTATA.

Land owner/manager:

BLM: BUTTE DISTRICT, DILLON RESOURCE AREA

Comments:

VOUCHER VERIFIED BY J. BEAMAN (MSC), AND CONSISTS OF NEARLY DISCOID AND APPARENTLY APOMICTIC PLANTS.

Information source:

LESICA, P. DIVISION OF BIOLOGICAL SCIENCES, UNIV. OF MONTANA, MISSOULA, MT 59812. (3380). 1985. MSC.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: STANLEYA VIRIDIFLORA
Common Name: GREEN PRINCE'S-PLUME

App. # 5037

Global rank: G4 Forest Service status:
State rank: S1 Federal Status:

- Located > 2 miles from lease tract

Element occurrence code: PDBRA2E060.005
Element occurrence type:

Survey site name: WHITE HILLS
EO rank:
EO rank comments:

County: BEAVERHEAD

USGS quadrangle: ROCK ISLAND RANCH

Township 011S, Range 008W, Section 25
Township-range comments:

Precision: M

Survey date: 1985-06-10	Elevation: 6500
First observation: 1985	Slope/aspect:
Last observation: 1985-06-10	Size (acres):

Location:

WHITE HILLS, EAST OF SAGE CREEK ROAD, 17 KM NE OF KIDD.

Element occurrence data:
UNKNOWN.

General site description:

SANDY, CALCAREOUS SOIL ON STEEP, SOUTH-FACING, ERODING SLOPES; WITH
PENSTEMON ARIDUS, LESQUERELLA ALPINA, GILIA SPICATA, ERIOGONUM MANCUM,
ARTEMISIA TRIDENTATA.

Land owner/manager:

BLM: BUTTE DISTRICT, DILLON RESOURCE AREA

Comments:
NONE.

Information source:

LESICA, P. DIVISION OF BIOLOGICAL SCIENCES, UNIV. OF
MONTANA, MISSOULA, MT 59812.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: SPHAERALCEA MUNROANA
Common Name: WHITE-STEMMED GLOBE-MALLOW

App. # 5062

Global rank: G4 Forest Service status:
State rank: S1 Federal Status:

-Located ~4 miles from lease tract

Element occurrence code: PDMAL140F0.001
Element occurrence type:

Survey site name: LIMA DAM CLIFFS
EO rank:
EO rank comments:

County: BEAVERHEAD

USGS quadrangle: LIMA DAM

Township 013S, Range 006W, Section 32
Township-range comments: W2,31S2

Precision: S

Survey date: 1986-06-10	Elevation: 6960
First observation: 1986	Slope/aspect:
Last observation: 1987-06-25	Size (acres): 1

Location:

0.25 AIR MILES NORTH OF LIMA DAM, WEST END OF LIMA RESERVOIR, CA. 7
AIR MILES NNW OF MONIDA.

Element occurrence data:

VERY SMALL POPULATION, NO MORE THAN 5 PLANTS SEEN; ENTIRE POPULATION
NOT SURVEYED (1986). SEVERAL PLANTS (LACKSCHEWITZ, 1987).

General site description:

RED CALCAREOUS SOIL, SAGEBRUSH GRASSLAND AT BASE OF AND ON S-FACING
CLIFFS IN SHALLOW SOIL; WITH ERIGERON CAESPITOSUS, HESPEROCHLOA
KINGII.

Land owner/manager:

BLM: BUTTE DISTRICT, DILLON RESOURCE AREA
PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

VOUCHERS - LACKSCHEWITZ, K.H. (11270), 1987, SPECIMEN #105455 (MONTU),
COLLECTED IN SOUTH HALF OF S31; HILDEBRAND, B. (S.N., 410), 1977,
1978, (MONT).

Information source:

LESICA, P. DIVISION OF BIOLOGICAL SCIENCES, UNIV. OF MONTANA,
MISSOULA, MT 59812.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: STANLEYA VIRIDIFLORA

App. # 5069

Common Name: GREEN PRINCE'S-PLUME

Global rank: G4 Forest Service status:

- located > 1 mile from lease tract

State rank: S1 Federal Status:

Element occurrence code: PDBRA2E060.004

Element occurrence type:

Survey site name: RED BUTTE

EO rank:

EO rank comments:

County: BEAVERHEAD

USGS quadrangle: DELL

Township 013S, Range 009W, Section 10

Precision: M

Township-range comments: W2

Survey date: - -

Elevation: 6200

First observation: 1986

Slope/aspect:

Last observation: 1986-07-06

Size (acres): 0

Location:

WEST-FACING SLOPE OF RED BUTTE, ABOUT 8 MILES NORTHWEST OF LIMA.

Element occurrence data:

COMMON.

General site description:

IN STONEY, CALCAREOUS SOIL ON A STEEP, WEST-FACING SLOPE; WITH
CERCOCARPUS LEDIFOLIUS, ORYZOPSIS HYMENOIDES.

Land owner/manager:

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

NONE.

Information source:

LESICA, P. (3930). 1986. SPECIMEN #104568 UM.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: CASTILLEJA ANGUSTIFOLIA
Common Name: DESERT PAINTBRUSH

App. # 5074/5075

Global rank: G4G5 Forest Service status:
State rank: S2 Federal Status:

Element occurrence code: PDSCROD020.001
Element occurrence type:

Survey site name: LOWER BIG SHEEP CANYON.
EO rank:
EO rank comments:

County: BEAVERHEAD

USGS quadrangle: DELL

Township 013S, Range 009W, Section 19
Township-range comments: 20W2SW4,20N2

Precision: S

Survey date: 1986-06-12	Elevation: 6260.
First observation: 1986	Slope/aspect:
Last observation: 1986-06-12	Size (acres): 20

Location:

LOWER BIG SHEEP CREEK CANYON; 1.5 MILES SOUTHEAST OF DELL INTERCHANGE
AND 3 MILES UP BIG SHEEP CREEK ROAD.

Element occurrence data:

101-1000 INDIVIDUALS; FULL EXTENT NOT SURVEYED, NOT A DENSE
POPULATION.

General site description:

RED CALCAREOUS BLUFFS; CERCOCARPUS LEDIFOLIA/AGROPYRON
SPICATUM/ARTEMISIA TRIDENTATA, WITH PENSTEMON ARIDUS, ARTEMISIA
FRIGIDA.

Land owner/manager:

BLM: BUTTE DISTRICT, DILLON RESOURCE AREA
PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

NONE.

Information source:

LESICA, P. DIVISION OF BIOLOGICAL SCIENCES, UNIV. OF MONTANA,
MISSOULA, MT 59812. (3826). 1986. MONTU.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: ASTRAGALUS LENTIGINOSUS VAR SALINUS
Common Name: SODAVILLE MILK-VETCH

App. # 5074/5075

Global rank: G5T5 Forest Service status:
State rank: S2 Federal Status:

Element occurrence code: PDFAB0F4QR.001
Element occurrence type:

Survey site name: LOWER BIG SHEEP CANYON
EO rank:
EO rank comments:

County: BEAVERHEAD

USGS quadrangle: DELL

Township 013S, Range 009W, Section 30
Township-range comments: NE4

Precision: S

Survey date: 1986-06-12	Elevation: 6250
First observation: 1986	Slope/aspect:
Last observation: 1986-06-12	Size (acres): 10

Location:

LOWER BIG SHEEP CANYON; FROM DELL EXIT ON I-15, TAKE FRONTAGE ROAD
SOUTHEAST 1.5 MILES TO BIG SHEEP CREEK ROAD, THEN SOUTHWEST TO LOWEST
CANYON. SITE IS ON NORTH SIDE.

Element occurrence data:

INFREQUENT, EST. 11-50 PLANTS, SCATTERED; IN FLOWER AND FRUIT. CATTLE
TRAILS THROUGH AREA.

General site description:

CALCAREOUS (RED) SOIL; ARTEMISIA TRIDENTATA/AGROPYRON SPICATUM, WITH
ASTRAGALUS DRUMMONDII.

Land owner/manager:

BLM: BUTTE DISTRICT, DILLON RESOURCE AREA
PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

DID NOT SURVEY ENTIRE POPULATION.

Information source:

LESICA, P. DIVISION OF BIOLOGICAL SCIENCES, UNIV. OF MONTANA,
MISSOULA, MONTANA 59812. (3827). SPECIMEN # 104308 MONTU.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: STANLEYA VIRIDIFLORA
Common Name: GREEN PRINCE'S-PLUME

App. # 5074/5075

Global rank: G4 Forest Service status:
State rank: S1 Federal Status:

Element occurrence code: PDBRA2E060.003
Element occurrence type:

Survey site name: LOWER BIG SHEEP CANYON
EO rank: B
EO rank comments: LARGE POPULATION.

County: BEAVERHEAD

USGS quadrangle: DELL

Township 013S, Range 009W, Section 19
Township-range comments: 20W2,30N2

Precision: S

Survey date: 1986-06-12	Elevation: 6680
First observation: 1986	Slope/aspect:
Last observation: 1989-06-27	Size (acres): 2

Location:

LOWER BIG SHEEP CANYON; FROM DELL EXIT ON I-15, TAKE FRONTAGE ROAD
SOUTHEAST 1.5 MILES TO BIG SHEEP CREEK ROAD, THEN SOUTHWEST 3 MILES.
SITE IS ON NORTH SIDE OF ROAD.

Element occurrence data:

EST. 100-200 PLANTS; IN BUD (IMMATURE); CATTLE TRAILS THROUGH AREA, A
FEW PLANTS WERE EATEN.

General site description:

CALCAREOUS (RED) SOIL; SAGEBRUSH/WHEATGRASS/MOUNTAIN MAHOGANY, WITH
PENSTEMON ARIDUS, CERCOCARPUS LEDIFOLIUS, ARTEMISIA FRIGIDA.

Land owner/manager:

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)
BLM: BUTTE DISTRICT, DILLON RESOURCE AREA

Comments:

NONE.

Information source:

LESICA, P. DIVISION OF BIOLOGICAL SCIENCES, UNIV. OF MONTANA,
MISSOULA, MT 59812. 12 JUNE.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: ASTRAGALUS LEPTALEUS

App. # 5076

Common Name: PARK MILK-VETCH

Global rank: G4 Forest Service status: WATCH

State rank: S1 Federal Status:

- Located > 1 mile away in creek
bottom; this site is on ridge
top.

Element occurrence code: PDFAB0F4R0.005

Element occurrence type:

Survey site name:

EO rank:

EO rank comments:

County: BEAVERHEAD

USGS quadrangle: DIXON MOUNTAIN

Township 013S, Range 010W, Section 25

Precision: M

Township-range comments: SE4

Survey date: 1986-07-06

Elevation: 6280

First observation: 1986

Slope/aspect:

Last observation: 1986-07-06

Size (acres): 0

Location:

ALONG BANK OF BIG SHEEP CREEK JUST WEST OF THE FIRST BLM CATTLEGUARD,
ABOUT 8 MILES NORTHWEST OF LIMA.

Element occurrence data:

UNCOMMON.

General site description:

ALONG BANK OF CREEK; WITH SILENE MENZIESII, POA PRATENSIS.

Land owner/manager:

BLM: BUTTE DISTRICT, DILLON RESOURCE AREA

Comments:

NONE.

Information source:

LESICA, P. (3931). 1986. SPECIMEN #104457 UM.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: ASTRAGALUS LENTIGINOSUS VAR SALINUS
Common Name: SODAVILLE MILK-VETCH

App. # 5082/5083

Global rank: G5T5 Forest Service status:
State rank: S2 Federal Status:

-Tracts withdrawn

Element occurrence code: PDFAB0F4QR.002
Element occurrence type:

Survey site name:
EO rank:
EO rank comments:

County: BEAVERHEAD

USGS quadrangle: SNOWLINE

Township 014S, Range 007W, Section 27
Township-range comments: NE4

Precision: M

Survey date: 1986-06-11	Elevation: 6700
First observation: 1986	Slope/aspect:
Last observation: 1986-06-11	Size (acres): 0

Location:

GENTLE SLOPES ABOUT 6.7 MILES NORTHEAST OF MONIDA PASS.

Element occurrence data:
UNCOMMON.

General site description:

IN GRASSLANDS ON GENTLE SLOPES; WITH ARTEMISIA TRIPARTITA, FESTUCA IDAHOENSIS.

Land owner/manager:

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)
BLM: BUTTE DISTRICT, DILLON RESOURCE AREA

Comments:
NONE.

Information source:

LESICA, P. (3814). 1986. SPECIMEN #104305 UM.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: ASTRAGALUS LEPTALEUS
Common Name: PARK MILK-VETCH

App. # 5082/5083

Global rank: G4 Forest Service status: WATCH
State rank: S1 Federal Status:

-Tracts withdrawn

Element occurrence code: PDFAB0F4R0.004
Element occurrence type:

Survey site name:
EO rank:
EO rank comments:

County: BEAVERHEAD

USGS quadrangle: SNOWLINE

Township 014S, Range 007W, Section 22
Township-range comments: SW4

Precision: M

Survey date: 1986-07-07	Elevation: 6600
First observation: 1986	Slope/aspect:
Last observation: 1986-07-07	Size (acres): 0

Location:

BETWEEN THE OLD HIGHWAY AND I-15, 0.5 MILE SOUTH OF UPPER SNOWLINE RANCH, ABOUT 6 MILES NORTHWEST OF MONIDA.

Element occurrence data:
COMMON.

General site description:

IN A SMALL REMNANT ALKALINE MEADOW; WITH PHLOX KELSEYI, POTENTILLA FRUTICOSA.

Land owner/manager:

STATE LAND - UNDESIGNATED
PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)

Comments:

NONE.

Information source:

LESICA, P. (3936). 1986. SPECIMEN #104458. MONTU.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: SENECIO DEBILIS
Common Name: ROCKY MOUNTAIN RAGWORT

App. # 5082/5083

Global rank: G3G4 Forest Service status:
State rank: S1 Federal Status:

Treats withdrawn

Element occurrence code: PDAST8H110.008
Element occurrence type:

Survey site name:
EO rank:
EO rank comments:

County: BEAVERHEAD

USGS quadrangle: SNOWLINE

Township 014S, Range 007W, Section 22
Township-range comments: SW4

Precision: M

Survey date: - -	Elevation: 6600
First observation: 1986	Slope/aspect:
Last observation: 1986-07-07	Size (acres): 0

Location:

MEADOW BETWEEN THE OLD HIGHWAY AND I-15, 0.5 MILE SOUTH OF THE UPPER
SNOWLINE RANCH; ABOUT 6 MILES NORTHWEST OF MONIDA.

Element occurrence data:
UNCOMMON.

General site description:

SMALL REMNANT ALKALINE MEADOW; WITH PHLOX KELSEYI, POTENTILLA
FRUTICOSA.

Land owner/manager:

PRIVATELY OWNED LAND (INDIVIDUAL OR CORPORATE)
STATE LAND - UNDESIGNATED

Comments:
NONE.

Information source:

LESICA, P. (3935). 1986. SPECIMEN #104566. MONTU.

October 8, 1992

MONTANA NATURAL HERITAGE PROGRAM
Element Occurrence Record

Scientific Name: ARTEMISIA TRIDENTATA/FESTUCA IDAHOENSIS PA App. # 5086
Common Name: BIG SAGEBRUSH/IDAHO FESCUE ASSOCIATION

Global rank: G5 Forest Service status:
State rank: S4 Federal Status: *- Located > 2 miles from lease tract*

Element occurrence code: C5B2BGABA0.004
Element occurrence type:

Survey site name: DUTCH HOLLOW
EO rank:
EO rank comments:

County: BEAVERHEAD

USGS quadrangle: LIMA PEAKS

Township 014S, Range 008W, Section 24 Precision: M
Township-range comments: SE4

Survey date:	Elevation: 6650
First observation:	Slope/aspect:
Last observation:	Size (acres): 0

Location:
FROM LIMA GO CA. 5 MILES SOUTHEAST ON MINOR ROADS FOLLOWING POWERLINE
AS CLOSELY AS POSSIBLE.

Element occurrence data:
SEE A80MUE01MT FOR GENERAL TYPE DESCRIPTION IN SUMMARY TABLE.

General site description:
NEED SITE SURVEY - SOME MUEGGLER PLOTS LOCATED IN SMALL AREAS IN FENCE
CORNERS, OTHERS IN RNAS, SOME "ADEQUATE" BUT ALTERED BY GRAZING.
MUEGGLER STAND #134.

Land owner/manager:
STATE LAND - UNDESIGNATED
BLM: BUTTE DISTRICT, DILLON RESOURCE AREA

Comments:
PLOT LOCATIONS DETAILED IN 1/22/87 LETTER FROM MUEGGLER. OWNERSHIP
UNCERTAIN BECAUSE SITE LOC. IS NOT PRECISELY KNOWN.

Information source:
MUEGGLER, WALTER. USFS, 860 N 1200 E, LOGAN, UT 84321.

Managed Area Basic Record
COMERTOWN-WESTBY WATERFOWL PRODUCTION AREAS
MEDICINE LAKE NATIONAL WILDLIFE REFUGE

App. # 5090

COUNTY: Sheridan

- pit netting & screening covered by
Board of Oil & Gas Rules ARM 36.22.12
& 36.22.1227

USGS QUAD(S): WESTBY SOUTH
TADPOLE LAKE
WESTBY NORTH
LONE TREE LAKE
PARK LAKE
DOOLEY LAKE

LOCATION INFORMATION:

TOWNSHIP-RANGE: See comments below.

LAT: S: 484630N E: 1040250W
LONG: N: 490000N W: 1042400W

DESCRIPTION: PARCELS OF PRAIRIE POTHOLE HABITAT DISTRIBUTED
THROUGHOUT NE SHERIDAN COUNTY.

ACRES: 4760.00
BOUNDARIES: Y

COMMENTS: MEDICINE LAKE NATIONAL WILDLIFE REFUGE INCLUDES 42
WATERFOWL PRODUCTION AREAS (WPA) IN THE 3 COUNTY
NORTHEASTERN MONTANA WETLANDS MANAGEMENT DISTRICT.
ONE OF THESE WPA'S, LOCATED AT TOWNSHIP 35N RANGE 58E
SECTION 15, IS CLOSE TO NOMINATED TRACT APP. #5090.

ESTAB. DATE: PROTECTION STATUS: MODERATELY PROTECTED

MANAGER: MANAGER
MEDICINE LAKE NATIONAL WILDLIFE REFUGE
MEDICINE LAKE, MT 59240
PHONE: 406 789-2305

PUBLIC ACCESS: RESTRICTED
COOPERATING INSTITUTIONS:

MANAGEMENT COMMENTS: MANAGED FOR WATERFOWL PRODUCTION. CLOSED TO
VEHICLES AND CAMPING; OTHERWISE OPEN.

APPENDIX D: Late Comments

STATE OF MONTANA



DEPARTMENT OF

FISH AND GAME

3391 Highway 287
Sheridan, MT 59749

RECEIVED

October 30, 1992

Gary Weissmann
Dept. of State Lands
1625 Eleventh Ave.
Helena, MT 59620

NOV 04 1992
STATE LANDS

Dear Gary:

Thank you for your letter of September 30, regarding the December 1, 1992 Oil and Gas Lease Sale.

As per our phone discussion I am sending these written comments regarding the potential leases. Many of the leases in Beaverhead County are located on big game winter range. Should they be explored or developed the activity would result in disturbance. As a result, we recommend that a stipulation be attached to these leases which prevents activity during the period of October 15 through May 15, annually. The BLM has a similar stipulation on all oil and gas leases on big game winter range on their lands.

The Application Numbers to which this stipulation should apply are indicated below. Gary Hammond asked that I include the applications he reviewed so that you would have both our comments in writing.

Application No.	Affected Species Winter Range
5024-5026	Mule Deer
5027-5034	Elk
5035-5051	Mule Deer
5052-5060	Elk
5061, 5062	Antelope
5063-5066, 5068	Antelope & Mule Deer
5079-5081	Antelope & Mule Deer
5085-5088	Elk

Thank you for the opportunity to comment.

Sincerely,

Robert D. Brannon
Wildlife Biologist