

## **Compartment Review Presentation**

**Grayling Forest Management Unit** 

Compartment 72191 Entry Year 2022 Acreage: 1,208

**County Crawford** 

Management Area: Camp Grayling

Revision Date: 2020-06-18

Stand Examiner: Scott McClarren

**Legal Description:** 

T25N, R04W, Sections 20 and 29, Beaver Creek Township.

#### **Identified Planning Goals:**

To manage and maintain species and structural diversity, health, productivity, and sustainability throughout the compartment. To provide multiple uses of the land while incorporating any visual management needed.

#### Soil and topography:

Soil types within the compartment consist of Chelsea and Grayling sands, to Rifle, Dawson and Kinross Peats. The topography consists mostly of flat level terrain with a major drainage in the south of section 29.

#### Ownership Patterns, Development, and Land Use in and Around the Compartment:

The state ownership within this compartment is solid, except for seventy five acres in the northwest of section 20 and 1 acre in the northwest of section 29. Land use includes several oil/gas facilities as well as active and inactive oil well sites throughout this compartment. The area has heavy oil and gas development and is riddled with pipelines, wellpads, and injection wells. Many of the old surface pipelines are not surveyed and can still be found in the compartment. There are several Kirtland Warbler cuts adjacent to the compartment, but not within the compartment.

#### **Unique Natural Features:**

Stand 62 appears to be a northern shrub thicket and stand 60 is a treed bog. These do not appear to be a high quality examples of the ecotypes.

#### Archeological, Historical, and Cultural Features:

None known at this time.

#### **Special Management Designations or Considerations:**

Visual management is a concern when treating stands within this compartment. Oil well sites and pipelines will have an impact on the treating of timber stand within this compartment as well. Other considerations to consider are the designated Northern Shrub Thicket to the east of compartment and designated pine barrens to the west.

#### Watershed and Fisheries Considerations:

This compartment is in the South Branch Au Sable River watershed, with Beaver Creek originating just to the east of the compartment boundary. There is no surface water in this compartment, so Fisheries has no concerns at this time.

#### Wildlife Habitat Considerations:

To manage and maintain existing forest cover types for deer, bear, turkey and grouse.

#### Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The closest active sand/gravel pit is more than three miles northeast. Sand & gravel potential appears to be good in the compartment, but there are some wetland areas that could inhibit development in places. Part of the Beaver Creek oil & gas field occurs in the compartment. The field is currently undergoing secondary recovery operations. There could be potential for additional production or injection wells within the compartment. Most State-owned mineral rights in the compartment are currently leased and held by production.

#### **Vehicle Access:**

Compartment is accessible from County Roads 7 Mile and Fletcher. Several County Roads such as Oil Well, Seeley, Tangelo and Chesley run north/south between 7 Mile and Fletcher. Hunter Truck Trail runs east west in the south end of compartment. Most every 40 acres within the compartment is encompassed by a road or trail.

#### **Survey Needs:**

None needed

#### **Recreational Facilities and Opportunities:**

There are no designated recreational facilities within this compartment. The compartment does offer recreational opportunities such as hunting, berry picking and bird and wildlife watching.

#### **Fire Protection:**

Fire protection is the responsibility of the Michigan DNRE and the Beaver Creek Township Fire Department. Current roads and trail system with is more than adequate for fire equipment access. No major water source nearby. The compartment is dominated by fire susceptible species and as been prone to fire in the past. A designated fuel break exists on the east side of the compartment from 7 Mile Road south to drainage area south of Fletcher Road. A fuel break was cut in 2006 and has heavy natural regeneration on it. Due to the heavy oil and gas development within the compartment and the presence of sour gas, this area is designated as a no plow area.

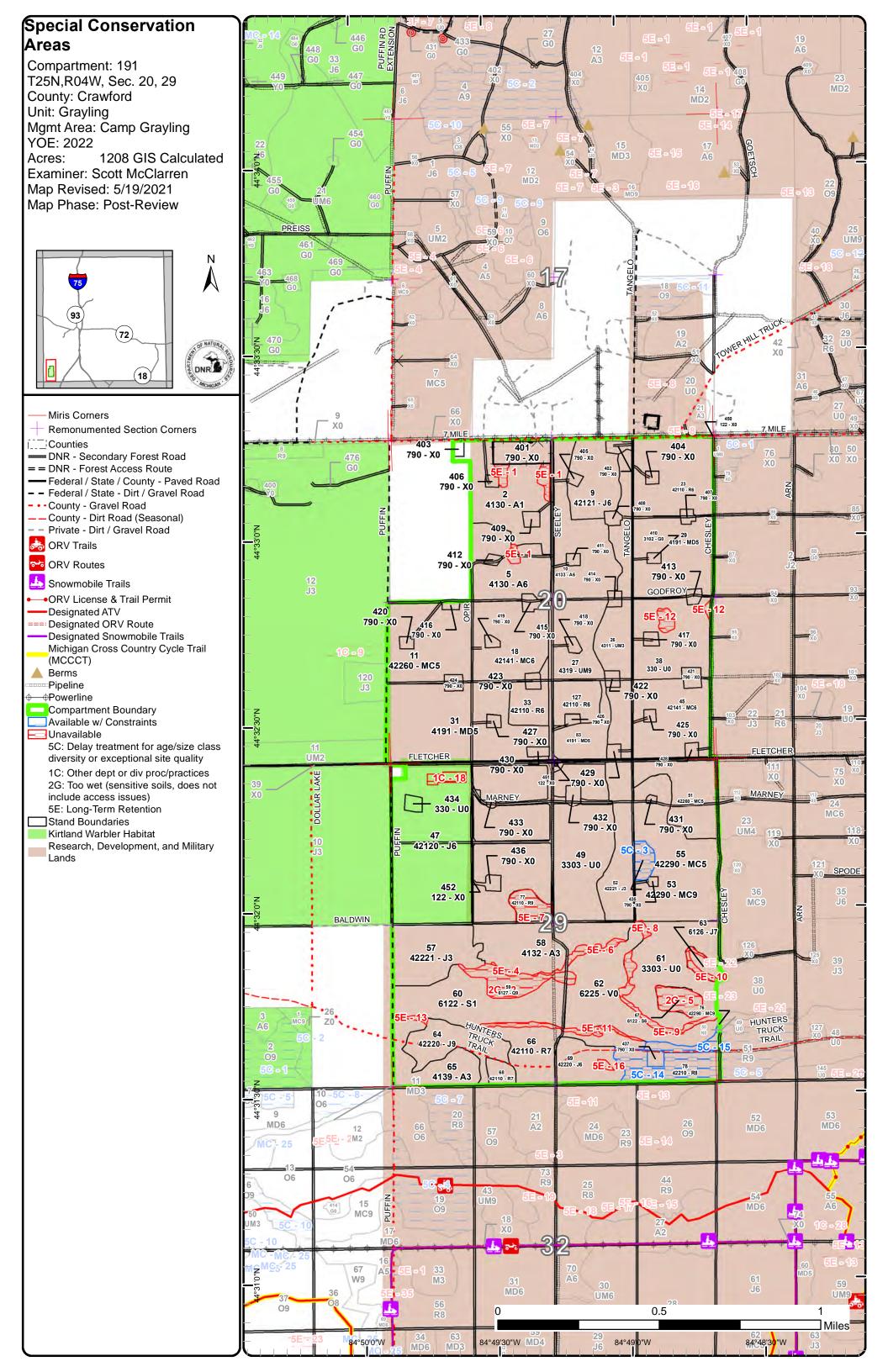
#### **Additional Compartment Information:**

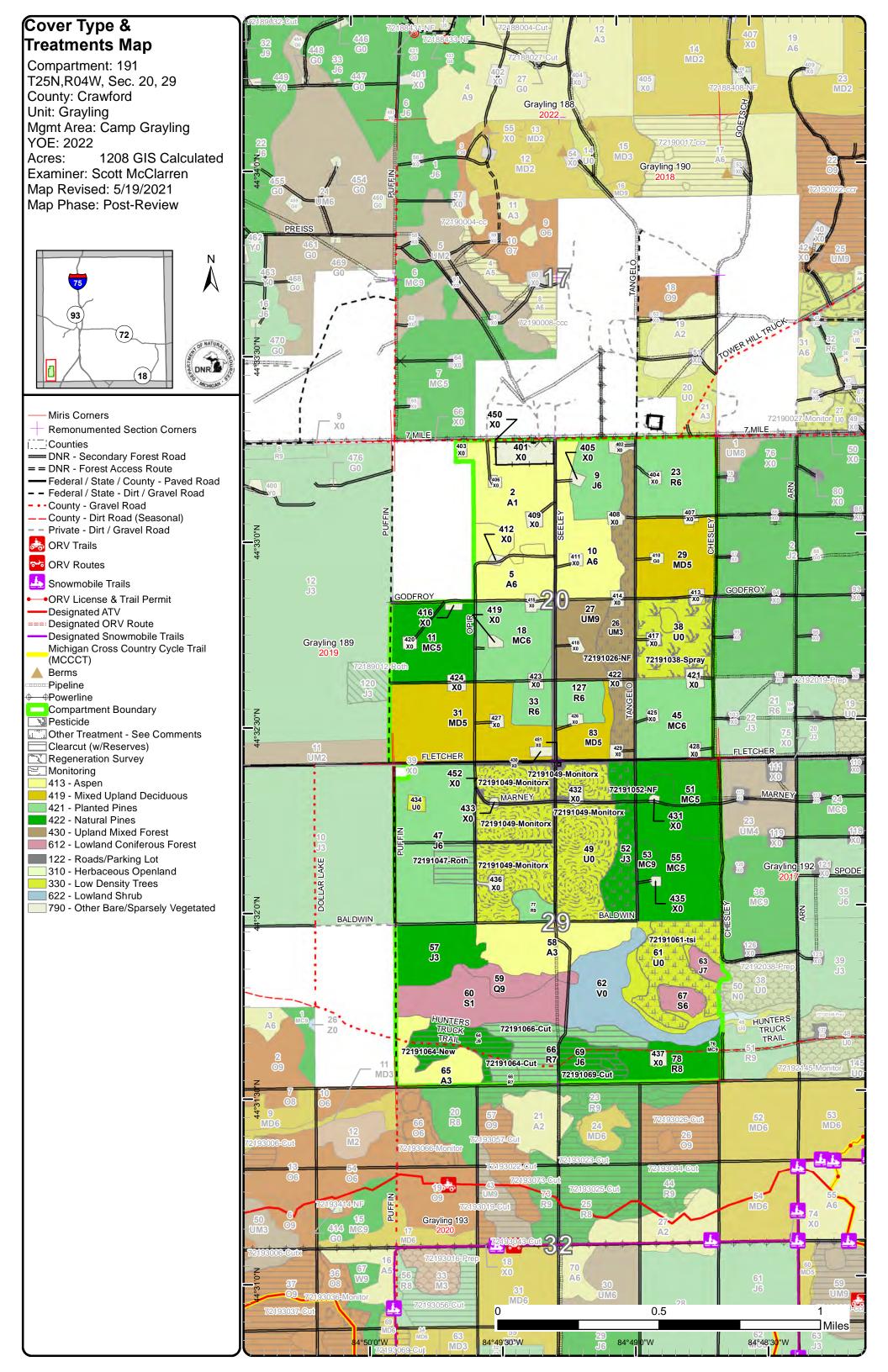
The following reports from the Inventory are attached:

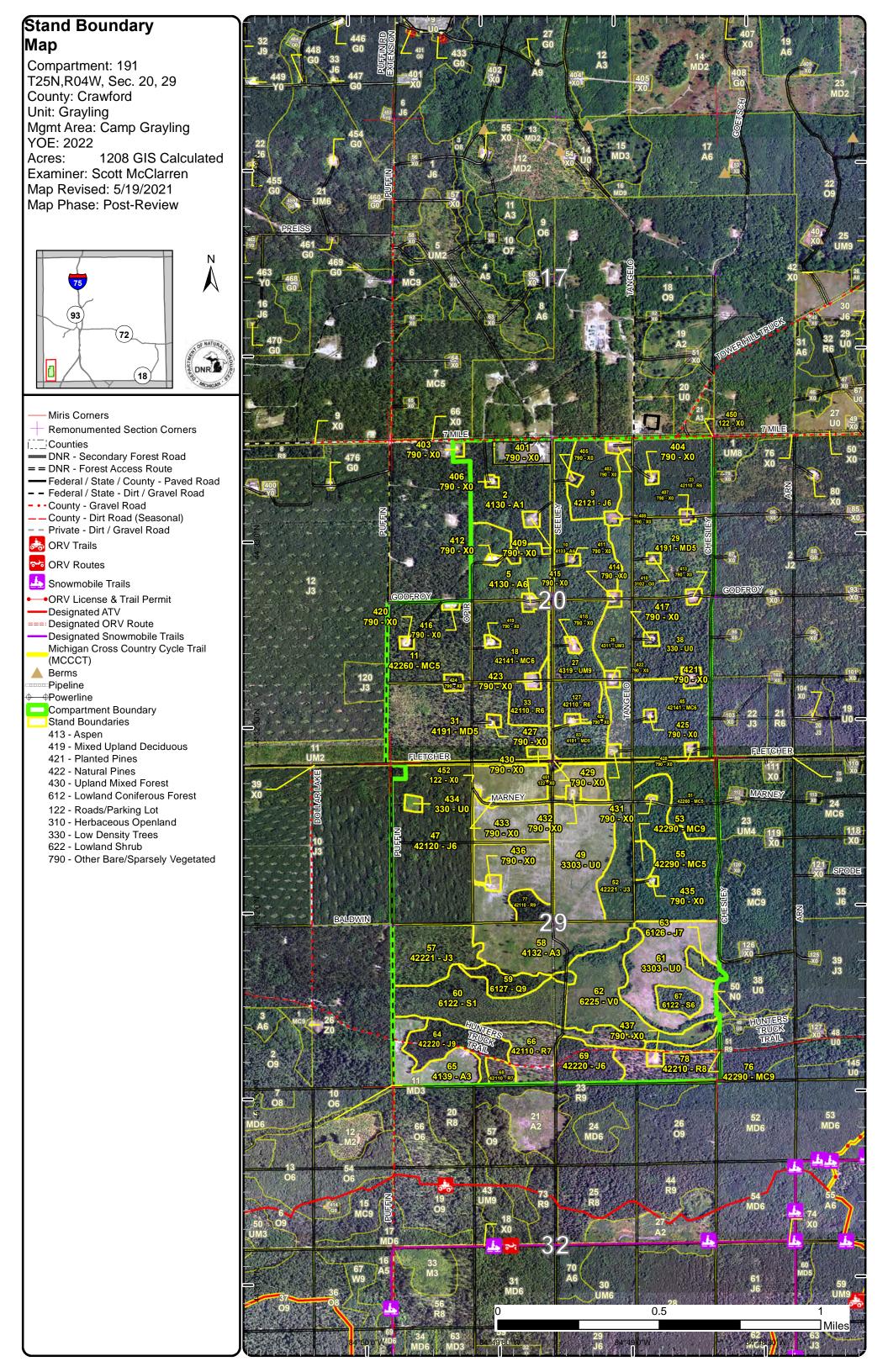
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system







**Scott McClarren: Examiner** 

Grayling Mgt. Unit



#### Age Class

	No.	A STATE OF THE PARTY OF THE PAR	3 / 2	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		3/\$		3/8	\$ / R	R &		S Jan	70,		R S		84 / £	<b>3</b> July 1	YOU YOU
Aspen	0	96	0	29	36	0	0	0	0	0	0	0	0	0	0	0	0	0	161
Bare/Sparsely Vegetated	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Bog	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	53	0	98	0	0	40	0	0	0	0	0	0	0	0	0	0	191
Low-Density Trees	196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	196
Lowland Conifers	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	40	47
Mixed Upland Deciduous	0	0	0	38	0	78	0	0	0	0	0	0	0	0	0	0	0	0	116
Natural Mixed Pines	0	0	0	0	91	0	26	0	4	5	0	0	0	0	0	0	0	0	126
Planted Mixed Pines	0	0	0	0	69	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Red Pine	0	0	0	0	60	0	0	0	0	24	31	0	0	0	0	0	0	0	115
Upland Mixed Forest	0	0	38	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	60
Urban	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Total	312	96	91	67	354	78	37	62	4	29	38	0	0	0	0	0	0	40	1208



### **Report 2 – Treatment Summary**

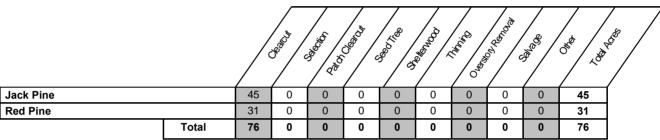
# Grayling Mgt. Unit Year of Entry: 2022

#### **Acres of Harvest**

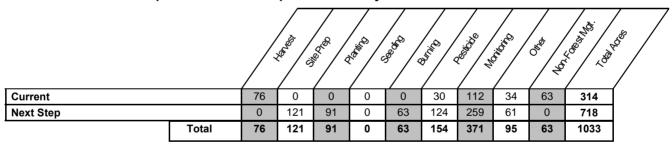
Compartment 191
Total Compartment Acres: 1,208

Commercial Harvest - 66
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 10

### **Cover Type by Harvest Method**



#### **Proposed and Next Step Treatments by Method**





Cut

s t а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age n Method Objective Structure Name CoverType Density Age Range Type d

#### **Approved Treatments:**

72191026-NF 37.5 4311 - Pine, Aspen Sapling 19 Immatu NonForestMgt Other - Specify 3102 - Grass No Mix Well

Prescription Periodic fuelbreak maintenance as needed to reduce woody vegetation along Tangelo Rd. This may be achieved through prescribed burning

or mechanical means depending on funding and equipment availability. Specs:

Monitoring, Natural Regen (Intermediate); Pesticide, Aerial - Site Prep; Burn, Fuel Break Next Step

**Treatments:** 

Acceptable None

Regen:

Coordinate with gas company to identify all surface and subsurface lines. <u>Other</u>

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

72191038-**ERROR** 4211 - Planted 29.9 330 - Low-Density Nonstocked Unspec Pesticide Even-Aged No **Spray** Trees ified Red Pine

Prescription Herbicide stand and plant red pine. Stand will not be trenched or roller chopped due to the presence of unmapped pipelines in area. Specs:

Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand; Planting, Unfurrowed Next Step

Treatments:

Acceptable Fully stocked red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

72191047-47 42120 - Planted Poletimber 31 1-50 Harvest 42220 - Natural Yes 10.0 Clearcut Even-Aged Jack Pine Well Jack Pine Roth

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Prescription Clearcut block part of Rothstein Research Project.

Treatments:

Acceptable Jack pine with mixed associated species.

Regen:

Other Sale went no bid twice so treatment will be done through contract.

Comment:

Treatment approved through a variance on 8-4-16.

Site Condition

Proposed Start Date: 7 /20/2016

Proposed Start Date: 10/1 /2021

Other F Comment: Site Condition

Percent to Treat = 100%

Report 3 -- Treatments

Compartment: 191

Treatment Acres Stand CoverType Density Age Range Treatment Type Method Delsective Struct  64 72191064-Cut 14.9 42220 - Natural Jack Pine Well Sawtimber 67 81-110 Harvest Clearcut with Retention Red Pine Red Pine  Prescription Harvest all stems 2" and greater except protect oak regen in lobe southwest of trail. Retention will be 100' buffer along bog of Specs:  Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(3yr)  Acceptable Fully stocked red pine except the southwest lobe south of trail will remain oak. Regen:  Other Harvest with stand 23 of comp 193.  Comment:  Site Condition  Proposed Start Date: 10/1 /2020  64 72191064-New 4.9 42220 - Natural Jack Pine Well  Prescription Harvest all merchantable stems. Protect regen.  Sees:  Monitoring, Natural Regen (Re-Inventory)  Treatments:  Monitoring, Natural Regen (Re-Inventory)  Treatments:  Oda is already established in understory.  Regen:	ture Cut -Aged No edge. cial Regen(1yr);
Prescription Harvest all stems 2" and greater except protect oak regen in lobe southwest of trail. Retention will be 100' buffer along bog expecs:  Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artification Monitoring, Artificial Regen(3yr)  Acceptable Regen: Other Harvest with stand 23 of comp 193.  Site Condition Proposed Start Date: 10/1 /2020  64 72191064-New 4.9 42220 - Natural Sawtimber 67 81-110 Harvest Clearcut 412 - Oak Types Even-Jack Pine Well  Prescription Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments:  Acceptable Oak is already established in understory.	edge. cial Regen(1yr);
Specs:  Next Step Treatments:  Next Step Treatments:  Nonitoring, Artificial Regen(3yr)  Acceptable Regen:  Other Comment:  Site Condition Proposed Start Date: 10/1 /2020  64 72191064-New 4.9 42220 - Natural Sawtimber Well  Prescription Specs:  Next Step Next Step Monitoring, Natural Regen (Re-Inventory)  Monitoring, SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artifical Regen; Planting, Initial Plant; Monitoring, Artifical Regen(3yr)  Prescription Harvest with stand 23 of comp 193.  Clearcut 412 - Oak Types Eventy Specs:  Next Step Treatments:  Acceptable Oak is already established in understory.	cial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)  Acceptable Regen:  Other Harvest with stand 23 of comp 193.  Comment:  Site Condition  Proposed Start Date: 10/1 /2020  64 72191064-New 4.9 42220 - Natural Sawtimber 67 81-110 Harvest Clearcut 412 - Oak Types Even-Jack Pine Well  Prescription Specs:  Next Step Monitoring, Natural Regen (Re-Inventory)  Treatments:  Acceptable Oak is already established in understory.	
Regen: Other Harvest with stand 23 of comp 193. Comment: Site Condition Proposed Start Date: 10/1 /2020  64 72191064-New 4.9 42220 - Natural Sawtimber 67 81-110 Harvest Clearcut 412 - Oak Types Even-Jack Pine Well Prescription Specs: Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable Oak is already established in understory.	-Aged N
Site Condition  Proposed Start Date: 10/1 /2020  64 72191064-New 4.9 42220 - Natural Sawtimber 67 81-110 Harvest Clearcut 412 - Oak Types Even- Jack Pine Well  Prescription Harvest all merchantable stems. Protect regen. Specs:  Next Step Monitoring, Natural Regen (Re-Inventory) Treatments:  Acceptable Oak is already established in understory.	-Aged N
64 72191064-New 4.9 42220 - Natural Sawtimber 67 81-110 Harvest Clearcut 412 - Oak Types Even- Jack Pine Well  Prescription Specs:  Next Step Treatments:  Acceptable Oak is already established in understory.	-Aged N
Prescription Specs:  Next Step Treatments:  Acceptable Oak is already established in understory.	-Aged N
Specs:  Next Step	
Treatments:  Acceptable Oak is already established in understory.	
Nogen.	
Other Comment:	
Site Condition	
Proposed Start Date: 10/1 /2020	
6672191066-Cut26.642110 - Planted Red PineSawtimber Poor961-50Harvest Revented by Clearcut with 	-Aged N
<u>Prescription</u> Clearcut with 100' buffer along bog as retention. Include low stump spec. <u>Specs:</u>	
Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand	cial Regen(1yr)
Acceptable Fully stocked red pine.  Regen:	
Other Harvest with stand 23 of comp 193. Comment:	
Site Condition	
Proposed Start Date: 10/1 /2020	
68 72191068-Cut 4.0 42110 - Planted Sawtimber 96 51-80 Harvest Clearcut 4211 - Planted Even-Red Pine Poor Red Pine	-Aged N
<u>Prescription</u> Clearcut no retention due to size. Include low stump specs. <u>Specs:</u>	
<u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand	cial Regen(1yr)
Acceptable Fully stocked red pine Regen:	
Other Harvest with stand 23 of comp 193 Comment:	
Site Condition	
Proposed Start Date: 10/1 /2020	

Grayling Mgt. Unit Report 3 -- Treatments Compartment: 191 S Year of Entry: 2022 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n Method Objective Structure Density Age Name CoverType Range Type Cut d 69 72191069-Cut 15.2 42220 - Natural Poletimber Harvest Clearcut with 4211 - Planted Even-Aged Red Pine Jack Pine Well Retention Prescription Harvest all merchantable stems greater than 2" DBH. Retention was drawn in using topo map and is meant to cover the low site jack pine in the depression (adjust as needed). Include low stump spec. Specs: SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Next Step <u>Treatments:</u> Monitoring, Artificial Regen(3yr) Acceptable Fully stocked red pine. Regen: <u>Other</u> Harvest with stand 23 of comp 193. Comment:

Total Treatment 314.3 Acreage Proposed:

Proposed Start Date: 10/1 /2020

Site Condition

**Grayling Mgt. Unit** 

Scott McClarren: Examiner

Compartment: 191
Year of Entry: 2022

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Sit	e Con	ditions
Acres	Available	With Condition	Not Available		5C	1C	2G	5E
162	153	0	9	Aspen				9
50	50	0	0	Bare/Sparsely Vegetated	0			
38	38	0	0	Bog				0
1	1	0	0	Herbaceous Openland				
191	187	0	5	Jack Pine		2		2
196	187	0	9	Low-Density Trees			0	9
11	0	0	11	Lowland Conifers			11	0
47	40	0	6	Lowland Spruce/Fir			6	0
116	116	0	0	Mixed Upland Deciduous				
126	117	9	0	Natural Mixed Pines	9			0
69	69	0	0	Planted Mixed Pines				
114	87	17	10	Red Pine	17			10
59	59	0	0	Upland Mixed Forest				
26	26	0	0	Urban				0
1,207	1,130	26	50	Total Forested Acres	26	2	17	30
	94%	2%	4%	Relative Percent				

\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

# Report 4 – Site Conditions

**Grayling Mgt. Unit** 

Scott McClarren : Examiner

Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Does not meet crite	eria for old growth, but displays o	old grow	th characteristics. Stand a	ndds structural diversity to t	he landscape.	
Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left from	#013-12.					
Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
	Comments: Does not meet crite Unavailable Comments: Unavailable Comments: Unavailable Comments: Unavailable Comments: Retention left from Unavailable Comments:	age/size class diversity or exceptional site quality  Comments: Does not meet criteria for old growth, but displays of Unavailable 5E: Long-Term Retention  Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Unavailable 5E: Long-Term Retention  Comments:  Unavailable 5E: Long-Term Retention  Comments:  Retention left from #013-12.  Unavailable 5E: Long-Term Retention  Comments:  Unavailable 5E: Long-Term Retention  Comments:	age/size class diversity or exceptional site quality  Comments: Does not meet criteria for old growth, but displays old grow  Unavailable 5E: Long-Term Retention 1  Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Unavailable 5E: Long-Term Retention 3  Comments:  Unavailable 5E: Long-Term Retention 7  Comments:  Retention left from #013-12.  Unavailable 5E: Long-Term Retention 1  Comments:	age/size class diversity or exceptional site quality  Comments:  Does not meet criteria for old growth, but displays old growth characteristics. Stand a Unavailable 5E: Long-Term Retention 1 Unspecified  Comments:  Unavailable 2G: Too wet (sensitive 6 Unspecified soils, does not include access issues)  Comments:  Unavailable 5E: Long-Term Retention 3 Unspecified  Comments:  Unavailable 5E: Long-Term Retention 7 Unspecified  Comments:  Retention left from #013-12.  Unavailable 5E: Long-Term Retention 1 Unspecified  Comments:  Unavailable 5E: Long-Term Retention 5 Unspecified	age/size class diversity or exceptional site quality  Comments:  Does not meet criteria for old growth, but displays old growth characteristics. Stand adds structural diversity to to the standard or old growth, but displays old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Stand adds structural diversity to the standard or old growth characteristics. Standard adds structural diversity to the standard or old growth characteristics. Standard adds structural diversity to the standard or old growth characteristics. Standard adds structural diversity to the standard or old growth characteristics. Standard adds structural diversity to the standard or old growth characteristics. Standard adds structural diversity to the standard or old growth characteristics. Standard or old growth characteristic	age/size class diversity or exceptional site quality  Comments:  Does not meet criteria for old growth, but displays old growth characteristics. Stand adds structural diversity to the landscape.  Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified  Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Unavailable 5E: Long-Term Retention 3 Unspecified Unspecified Unspecified  Comments:  Unavailable 5E: Long-Term Retention 7 Unspecified Unspecified Unspecified  Comments:  Unavailable 5E: Long-Term Retention 7 Unspecified Unspecified Unspecified  Comments:  Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified  Comments:  Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified Unspecified  Comments:

# Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

10	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
11	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
12	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

# Report 4 – Site Conditions

**Grayling Mgt. Unit** 

Scott McClarren: Examiner Year of Entry: 2

Compartment: 191 Year of Entry: 2022

18	Unavailable	1C: Other dept or div proc/practices	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
F	Roth 2017 thinning s	sites - MSU Stand 5					

5/19/2021 11:30:33 AM - Page 4 of 4 TONELLOM1

Mgt. Unit

Compartment: #Type!
Year of Entry:



### Report 5 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Grayling Mgt. Unit Compartment: 191
Year of Entry 2022



# Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for include the 5,847 acre Forest Fire Experiment Station, the 12,00 Area, the Beaver Islands Archipelago Wildlife Research Area (the High and Hog Islands, all state owned land on Beaver, South Fow Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Re Nursery, and over 144,000 acres of Military Lands.	0 acre Houghton Lake Wildlife Research at includes most of Garden Island, all of x and North Fox Islands), the Cusino
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and coop U.S. Fish and Wildlife service for the recovery of threatened and 365, Endangered Species Protection, of the Natural Resources and 451, and the Federal Endangered Species Act of 1973. This species plans in various stages of review. As of now only two explover Habitat.	endangered species, as governed by Part and Environmental Protection Act, 1994 is an active program, with proposed



Stand Level 4 C	Cover Type	s	ize De	nsity	Acres	Stand Age E	A Range	Managed \$	Site	General Comments
<b>2</b> 4130	) - Aspen	5	Sapling	Poor	38.4	3	Immature	N/A		Stand regenerated to fully stocked in most places and should be A2 or
Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	A3 next entry. Some small openings filled with cherry brush mix through stand. Will look very similar to stand 5 directly to the South in a couple
Black Cherry	20	Sapling	1		Prai	rie Willow	Low	5 - 10 feet	Tall Shrub	decades.Old comments: Mixed stand of Aspen/Jack pine. Some Oak
Black/Red (Hybrid) Oak	5	Sapling	1		Hawt	horn (spp.)	Trace	5 - 10 feet	Tall Shrub	and Red pine scattered within stand. Stand was harvested under 72-036
Quaking Aspen	70	Sapling	1	3						J 12-01 Seely Oil and Gas. Three different retention areas left. Also above ground gas lines are within this stand.
White Oak	2	Sapling	1							asoro ground gae moe are mann and etaile.
Red Maple	2	Sapling	1							
Jack Pine	1	Sapling	1							
<b>5</b> 4130	) - Aspen	Po	oletimb	er Well	28.9	28	1-50	N/A		Well stocked Aspen stand with small openings containing jack pine and cherry scattered throughout.Old comment: Immature Aspen stand.
Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Will reach young pole size in the next 10 years.
Quaking Aspen	85	Pole/Sapling	5	28	Bla	ck Cherry	Medium	Variable	Sapling	, , , , , , , , , , , , , , , , , , ,
Jack Pine	8	Sapling/Pole	4		Wi	llow spp.	Low	Variable	Tall Shrub	
Black Cherry	5	Sapling	4							
Black/Red (Hybrid) Oak	2	Sapling/Pole	4							
9 42121 - Planted Dec	d Jack Pine, ciduous	Mixed Po	oletimb	er Well	21.7	36	51-80	N/A		Some aspen getting saw size. All merchantable jack pine and aspen were removed through harvest in 1985. Old Comments: Immature
Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Jack pine stand mixed with deciduous spieces. Also some scatterrd Red pine. Stand just reaching into small pole size.
Red Maple	2	Pole	6		Bla	ck Cherry	Low	Variable	Sapling	F
Quaking Aspen	15	Pole/Log	9		Oa	ak (spp.)	Trace	Variable	Sapling	
Black/Red (Hybrid) Oak	5	Pole/Sapling	6							
Red Pine	3	Log	12							
Jack Pine	70	Pole	6	36						
White Oak	3	Pole	6							
<b>10</b> 4133 - Asp	en, Mixed P	ine Po	oletimb	er Well	36.2	36	81-110	N/A		Stand is mostly pole sized aspen, but contains saw sized oak and red pine. Small openings with cherry brush, serviceberry, prairie willow, and
Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	hawthorn scattered through stand. All merchantable jack pine and aspen
Red Maple	5	Pole/Sapling	7		Hawt	horn (spp.)	Trace	Variable	Tall Shrub	removed through harvest in 1985.Old Comments: Mixed stand.
White Oak	3	Pole	7			erry (spp.)	Medium	Variable	Sapling	Aspen, pine and Oak. Other spieces also.
Quaking Aspen	55	Pole/Sapling	7	36	\//i	Harri ann	Low	Variable	Tall Shrub	
		3	/	30	**1	llow spp.	LOW	Variable	Tall Office	1
Black/Red (Hybrid) Oak		Pole	7	30		erry (Juneberry)		10 - 20 feet	Sapling	
Black/Red (Hybrid) Oak Red Pine				30						



Stand	d Level 4 Co	over Type	S	Size De	nsity	Acres	Stand Age B.	A Range	Managed S	Site	General Comments
11	42260 - Natural Pir	ne, Mixed D	Deciduous Pole	etimbei	Medium	n 39.4	36	1-50	N/A		Stunted open grown poor form red pine saw timber with jack pine, cherry oak, and hawthorn between. Stand is log sized in some places, but pole
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	in most. Changed from even aged 55 to 2-aged. Canopy closure is close
	Red Maple	5	Pole/Log	8		Hawt	norn (spp.)	Medium	5 - 10 feet	Tall Shrub	to 50%. Red pine is healthy. Some J6 around well pad (stand 420) was
	Northern Pin Oak	5	Pole/Log	8		Che	rry (spp.)	Medium	Variable	Sapling	merged into stand.
	Red Pine	25	Log	12	78	Oa	k (spp.)	Low	Variable	Sapling	Stand was harvested in 1984. Stand was suppose to be re planted, but
	Jack Pine	40	Pole/Sapling	6	36	Prai	rie Willow	Low	5 - 10 feet	Tall Shrub	was not. Scattered Red pine throughout the stand(Saw log size, short in
	Black Cherry	20	Sapling/Pole	3		Re	ed Pine	Low	Variable	Sapling	height) mixed with Oak and natural Jack pine.
	Quaking Aspen	3	Sapling/Pole	4							
	White Oak	2	Pole/Sapling	7							
18	42141 - Planted N Deci	Mixed Pine duous	, Mixed Po	oletimb	er Well	34.4	35	51-80	N/A		All merchantable stems harvested in 1984. Looks like a planting mixture or red pine and jack pine. Rows weeve around residuals left from harves
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	and hardwood pockets. Stand contains above ground gas lines.Old comment: Red pine plantation mixed with Jack pine and other deciduous
	Red Maple	2	Pole/Log	9		Che	rry (spp.)	Medium	Variable	Sapling	species.
	White Oak	3	Pole/Log	9		Hawt	norn (spp.)	Medium	5 - 10 feet	Tall Shrub	
Bla	ck/Red (Hybrid) Oak	7	Pole/Log	9						,	
	Red Pine	39	Pole/Log	8							
	Jack Pine	41	Pole/Sapling	5	35						
	Quaking Aspen	5	Log/Pole	10							
23	42110 - Plar	nted Red P	ine Po	oletimb	er Well	37.3	35	111-140	N/A		All merchantable jack pine and aspen removed through harvest in 1985
	Canopy Species	% Cover	Size Class	DBH	Age						then planted to RP. Some scattered saw size RP planted around. Stand contains pockets of JP and aspen /oak too small to map but visible from
	Red Maple	2	Pole	7							aerial imagery. Aerial imagery and well locations indicate possible
	Quaking Aspen	3	Pole	7							unmapped pipelines.
	Northern Pin Oak	2	Sapling/Pole	4							Old Comment: Immature Red pine plantation mixed with deciduous
	Red Pine	80	Pole	7	35						species. Just reaching pole status.
	Black Cherry	2	Sapling/Pole	4							
	Jack Pine	10	Pole	6							
	White Oak	1	Pole/Log	9							
26	4311 - Pine	e, Aspen M	lix	Sapling	Well	37.5	19 I	mmature	N/A		12-18-2019 SM inventory: North 1/4 of stand mostly jack pine, 7 acres in middle mostly aspen/cherry, south 1/2 more jack pine/oak.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	midule mostly aspen/cherry, south 1/2 more jack pine/0ak.
Bla	ck/Red (Hybrid) Oak	8	Sapling	3		Che	rry (spp.)	Low	< 5 feet	Seeding	Old comment- Stand harvested last entry year. (2002). Designated fuel
	Jack Pine	50	Sapling	2	19	Wil	low spp.	Low	Variable	Tall Shrub	break.
	Black Cherry	20	Sapling	3							
	Quaking Aspen	20	Sapling	3							
	Red Pine	2	Sapling	2							



Stand	Level 4 Co	over Type		Size De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
27	4319 - Mixed	Upland Fo	rest S	Sawtimb	er Wel	l 21.8	63	81-110	N/A		South half of stand was planted to red pine in 1985 and split into new
С	anopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	anopy Species	Density	Avg. Height	Size	stand (127). Planting records say stand was planted in 1925, but multiple tree cores show the stand is closer to 62 years old Stand was part of
	Red Maple	33	Pole/Log	8		R	ed Maple	Medium	Variable	Sapling	Seele Oil and Gas Mix (72-036-12). Treatment was terminated due to
	White Oak	2	Pole/Log	8		Haw	thorn (spp.)	Low	10 - 20 feet	Tall Shrub	safety concerns. A lot of above ground gas lines were found after sale
Black/	Red (Hybrid) Oak	5	Log/Pole	10		Bla	ck Cherry	Medium	Variable	Sapling	was set up. Area is known for poison gas.
	Red Pine	50	Log/XLog	14	63	Serviceb	erry (Juneberry)	Low	10 - 20 feet	Sapling	
	Jack Pine	5	Log	10				,			•
Qı	uaking Aspen	5	Log/Pole	10							
29	4191 - Mixed Upla Cor	nd Deciduo nifer	ous with Po	letimbe	r Mediu	ım 38.0	27	1-50	N/A		Almost 2-aged look due to past management but left it even aged. Patchy conifer/oak pole timber with smaller sap/pole sized aspen and
С	anopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	cherry filled openings between patches. Merged old well pad (stand 32) i south side of stand that has re-vegetated.
	Red Maple	10	Pole/Sapling	6		F	ted Pine	Low	Variable	Sapling	South side of stand that has to regulated.
	White Oak	7	Pole/Sapling	7		J	ack Pine	Low	Variable	Sapling	Old comments- All merchantable jack pine and aspen removed through
Qı	uaking Aspen	10	Pole/Sapling	6		Ch	erry (spp.)	Medium	Variable	Sapling	harvest in 1985. Stand was harvested again in 2004 and natural regen was protected of all speices. Oak, Aspen, Jack and Red pine.
Black/	Red (Hybrid) Oak	28	Pole/Sapling	6	27	0	ak (spp.)	Low	Variable	Sapling	was protected of all speciess. Oak, Aspert, sack and Ned pine.
	Red Pine	15	Pole/Sapling	6		W	illow spp.	Low	Variable	Tall Shrub	
	Jack Pine	10	Pole/Sapling	6							
	Jack Pine White Pine	10 5	Pole/Sapling Pole/Log	8							
31	White Pine 4191 - Mixed Upla Coi	nd Decidue	Pole/Log	8 eletimbe			40	1-50	N/A		Changed stand to 2 aged. Jack pine and aspen saplings starting to fill in gaps. Some scattered saw sized red pine through stand but mostly along Eletcher road. Northwest corner is mostly immature aspen/jack.
31 c	White Pine 4191 - Mixed Upla Cor anopy Species	nd Decidue	Pole/Log  Dus with Po	8 eletimbe	r Mediu	Sub-Ca	nopy Species	Density	Avg. Height	Size	gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-
31 C	White Pine 4191 - Mixed Upla Cor anopy Species Red Maple	nd Decidue	Pole/Log  Dus with Po	eletimber DBH		Sub-Ca				<b>Size</b> Tall Shrub	gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving
31 C	White Pine 4191 - Mixed Upla Coi anopy Species Red Maple White Oak	nd Decidue nifer  % Cover  12  7	Pole/Log  Dus with Pole  Size Class Pole Pole	DBH 8		Sub-Ca	nopy Species	Density	Avg. Height		gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-
31 C	White Pine  4191 - Mixed Upla Cor anopy Species Red Maple White Oak uaking Aspen	nd Decidue nifer	Pole/Log  Dus with Pole  Size Class  Pole  Pole  Sapling	DBH 8 8 3	I Age	Sub-Ca	nopy Species	Density	Avg. Height		gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving
31 C	White Pine  4191 - Mixed Upla Cor anopy Species Red Maple White Oak Jaking Aspen Inthern Pin Oak	5 nd Decidue nifer	Pole/Log  Dus with Pole  Size Class  Pole  Pole  Sapling  Pole	DBH 8 8 3 7		Sub-Ca	nopy Species	Density	Avg. Height		gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving
31 C	White Pine  4191 - Mixed Upla Cor  anopy Species Red Maple White Oak Jaking Aspen rthern Pin Oak Red Pine	5 nd Deciduenifer % Cover 12 7 15 26 5	Pole/Log  Dus with Pole  Size Class  Pole  Pole  Sapling  Pole  Log	8   8   8   8   3   7   12	Age 40	Sub-Ca	nopy Species	Density	Avg. Height		gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving
31 C	White Pine  4191 - Mixed Upla Cor anopy Species Red Maple White Oak Jaking Aspen Inthern Pin Oak	5 nd Decidue nifer	Pole/Log  Dus with Pole  Size Class  Pole  Pole  Sapling  Pole	DBH 8 8 3 7	I Age	Sub-Ca	nopy Species	Density	Avg. Height		gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving
31 C	White Pine  4191 - Mixed Upla Cor  anopy Species Red Maple White Oak Jaking Aspen rthern Pin Oak Red Pine	5 nd Deciduenifer % Cover 12 7 15 26 5 25	Pole/Log  Dus with Pole  Size Class  Pole  Pole  Sapling  Pole  Log  Sapling	8   8   8   8   3   7   12	40 17	Sub-Ca Haw	nopy Species	Density	Avg. Height		gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving very thing under six inches.  Changed stand age from 92 to 35 years old, tree core and records
31 C Qu Nor	White Pine  4191 - Mixed Upla Cor  anopy Species Red Maple White Oak uaking Aspen rthern Pin Oak Red Pine Jack Pine	5 nd Deciduenifer % Cover 12 7 15 26 5 25 sted Red P	Pole/Log  Dus with Pole  Size Class  Pole  Pole  Sapling  Pole  Log  Sapling	DBH 8 8 3 7 12 2	40 17	Sub-Ca Haw	anopy Species thorn (spp.)	<b>Density</b> Trace	Avg. Height 5 - 10 feet		gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving very thing under six inches.  Changed stand age from 92 to 35 years old, tree core and records indicate stand was planted around the same time the other red pine in
31 C Qu Non	White Pine  4191 - Mixed Upla Cor anopy Species Red Maple White Oak Jaking Aspen Aspen Aspen Aspen Aspen Aspen Jack Pine  42110 - Plan	5 nd Deciduenifer % Cover 12 7 15 26 5 25 sted Red P	Pole/Log  Size Class  Pole  Pole  Sapling  Pole  Log  Sapling  Sapling	DBH 8 8 3 7 12 2	40 17	Sub-Ca Haw	anopy Species thorn (spp.)	Density Trace 81-110	Avg. Height 5 - 10 feet  N/A	Tall Shrub	gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving very thing under six inches.  Changed stand age from 92 to 35 years old, tree core and records
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31 C Noi	White Pine  4191 - Mixed Upla Cor  anopy Species Red Maple White Oak Jaking Aspen Thern Pin Oak Red Pine Jack Pine  42110 - Plan  anopy Species Red Maple	5 nd Decidue nifer  % Cover  12 7 15 26 5 25  sted Red P  % Cover 2	Pole/Log  Size Class Pole Pole Sapling Pole Log Sapling Size Class Pole	DBH 8 8 3 7 12 2 Poletimbe	40 17	Sub-Ca Haw  1 10.8  Sub-Ca Ch	anopy Species thorn (spp.)  36 anopy Species erry (spp.)	Density Trace  81-110 Density Medium	Avg. Height 5 - 10 feet  N/A  Avg. Height  Variable	Size Sapling	gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand. Old comment-Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving very thing under six inches.  Changed stand age from 92 to 35 years old, tree core and records indicate stand was planted around the same time the other red pine in the area was planted. Scattered mature red pine was planted around, however not enough to call 2 aged. Live crown ratio is 40 to 50% on
31 C Noi	White Pine  4191 - Mixed Upla Cor  anopy Species Red Maple White Oak Jaking Aspen Thern Pin Oak Red Pine Jack Pine  42110 - Plan  anopy Species Red Maple White Oak	5 nd Decidue nifer  % Cover  12 7 15 26 5 25  sted Red P  % Cover 2 2	Pole/Log  Size Class Pole Pole Sapling Pole Log Sapling  Size Class Pole Pole	DBH 8 8 3 7 12 2 Poletimbe	40 17	Sub-Ca Haw  1 10.8  Sub-Ca Ch	anopy Species thorn (spp.)  36 anopy Species erry (spp.)	Density Trace  81-110 Density Medium	Avg. Height 5 - 10 feet  N/A  Avg. Height  Variable	Size Sapling	gaps. Some scattered saw sized red pine through stand but mostly along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving very thing under six inches.  Changed stand age from 92 to 35 years old, tree core and records indicate stand was planted around the same time the other red pine in the area was planted. Scattered mature red pine was planted around, however not enough to call 2 aged. Live crown ratio is 40 to 50% on planted red pine in most areas.Old Comment- Stand split from parent
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Grayling Mgt. Unit

Compartment: 191

Year of Entry: 2022

Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments
38	330 - Low-D	330 - Low-Density Trees			cked	36.2	0	Unspecified	4211 - Planted	Red Pine	Mostly cherry with oak heavily browsed oak sprouts. Stand will likely grow into MD1 next rotation. Most oak is below 4.5 feet now.
											Old comments- Stand was harvested under 72-036-12-01 Seely Oil and Gas.
45	42141 - Planted I Deci	Mixed Pine duous	, Mixed F	Poletimbe	er Well	34.7	36	111-140	N/A		Red pine planted around residual white and red pine. White pine is multi topped and poor formed. Pockets of aspen and oak as well. Red pine is
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size	good form and has healthy crown ratio still. Old Comment-Red pine plantation just reaching into small pole size
	White Oak	7	Pole	7		Che	erry (spp.)	Low	Variable	Sapling	mixed with Aspen, Oak and Jack pine. Pockets of dense Aspen on west
	Quaking Aspen	7	Pole	6		O	ak (spp.)	Low	Variable	Sapling	side of stand. Pockets of Jack pine within stand. Scattered Oak, Aspen
Blac	ck/Red (Hybrid) Oak	10	Pole	7				1			and Red pine poles over top the planted Red pine.
	Red Pine	39	Pole/Log	8	36						
	Jack Pine	5	Pole	6							
	White Pine	30	Log/XLog	14	67						
47	42120 - Plar	ited Jack P	ine F	Poletimbe	er Well	76.2	31	1-50	N/A		Overall pole size, but still contains a lot of sub-merch stems. Pole sized
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size	aspen pockets found through stand. Rothstein experimental treatment in stand (not completed yet). Found a couple rows of red pine (probably a
	Quaking Aspen	15	Pole	7		Che	erry (spp.)	Medium	Variable	Sapling	couple bundles made it into planter's bag).Old Comments: KW Jack
	Red Pine	1	Pole/Sapling	5			ed (Hybrid) O	ak Trace	Variable	Sapling	pine plantation that has just reached young pole size. North end of stand
	Jack Pine	80	Pole/Sapling	5	31						borders Fletcher rd and the west side is bordering Dollar Lake trail.
	Black Cherry	4	Sapling	3							
49	3303 - Mixed Lo	ow Density	Trees	Nonsto	cked	111.7	0		42110 - Planted	d Red Pine	Was final harvested by 2015 (#013-12). Herbicided & trenched in 2015,
						Sub-Ca	nopy Speci	es Density	Avg. Height	Size	& planted to RP in 2016 (C72-782). Yr 1 regen survey in spring 2017 found 859 RP & 1,258 C-O tpa. Yr 3 regen survey in Oct 2018 found
						R	ed Pine	Low	< 5 feet	Seeding	15% mortality & 68% FTG in the NW forty that was linear-plot surveyed
						Bla	ck Cherry	Medium	5 - 10 feet	Tall Shrub	(that area had the least competition). 959 initial - 15% = 815 RP
						Black/Re	ed (Hybrid) O	ak Medium	< 5 feet	Sapling	estimated stocking. Oak-BC are the primary competitors, with localized A-JP. RP seedlings maintained good vigor despite a droughty summer.
						Qual	king Aspen	Low	< 5 feet	Sapling	Was release sprayed in September 2019.
						W	hite Oak	Low	< 5 feet	Seeding	
						Já	ack Pine	Low	< 5 feet	Seeding	
51	<b>51</b> 42260 - Natural Pine		eciduous Po	letimber	Mediu	m 25.6	51	51-80	N/A		Change stand age from 94 years old to 50 years old after previous reatment. Stand age is difficult to get precise due to variable white pine
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size	having persisted in the understory prior to being released. East half of
	White Oak	7	Pole	8		Bla	ck Cherry	Medium	Variable	Sapling	stand is a little older has more Log sized red pine. A few legacy pines
	Quaking Aspen	8	Pole/Log	9		W	hite Pine	Low	Variable	Sapling	found scattered through stand. Rp is older than 50 but not enough red pine present to make a separate age class.Old Comment: Harvested
Blac	k/Red (Hybrid) Oak	10	Pole	8		Hawt	thorn (spp.)	Trace	5 - 10 feet	Tall Shrub	last entry year (2005). Removed all the merchantable Jack pine. Heavy
	White Pine	55	Pole	7	51						White pine understory with a moderate White Oak understory.
	Red Pine	15	Log/XLog	15							
	Red Maple	5	Pole/Log	8							



Stand	Level 4 Co	over Type	,	Size De	ensity	Acres	Stand Age	BA Range	Managed S	ite	General Comments	
52	42221 - Natural o Decid	Jack Pine, duous	Mixed	Saplin	g Well	25.5	19	Immature	N/A		1-2-2020 SM inventory: Designated fuel break filling in with jack pine and pockets of mixed upland deciduous.	
(	Canopy Species	% Cover	Size Class	DBH	l Age							
	lorthern Pin Oak	5	Sapling	2								
	Jack Pine	70	Sapling	2	19							
	Black Cherry	20	Sapling	2								
C	Quaking Aspen	5	Sapling	2								
53	42290 - Natu	ral Mixed I	Pine S	awtimb	er We	ell 4.3	71	141-170	N/A		Changed stand from even-aged to two aged. Legacy Red Pine and white	
(	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-C	anopy Specie	s Density	Avg. Height	Size	pine with a second cohort of white pine and red pine in the understory.	
Black	k/Red (Hybrid) Oak	2	Log/Pole	10		R	ed Maple	Low	< 5 feet	Seeding	Old comments: Mature Red pine stand with small diameter White and	
	White Oak	2	Log/XLog	17		V	hite Pine	Low	Variable	Sapling	Red pine pole/sapling understory. Some scattered Oak and Jack pine	
	White Pine	48	Pole	6	71	Ch	erry (spp.)	Low	Variable	Sapling	throughout the stand.	
	Red Pine	46	Log/XLog	15	136							
	Red Maple	2	Pole/Log	9								
											Variable stand around 35 years old contains pockets of immature jagine and aspen mostly on the west side of the stand.Old Comment	
55	42290 - Natu			etimbe			36	51-80	N/A			
(	Canopy Species		Pine Pol	DBH	r Medi I Age		36 anopy Specie	s Density	Avg. Height	Size	pine and aspen mostly on the west side of the stand.Old Comments- Pockets of jack pine white pine, and quaking aspen. Other area have	
C	Canopy Species Quaking Aspen		Size Class Pole/Sapling	<b>DB</b> H		Sub-C				<b>Size</b> Sapling	pine and aspen mostly on the west side of the stand.Old Comments-	
C	Canopy Species Quaking Aspen lorthern Pin Oak	% Cover	Size Class	<b>DB</b> H 6 6	I Age	Sub-C	anopy Specie	s Density	Avg. Height		pine and aspen mostly on the west side of the stand.Old Comments- Pockets of jack pine white pine, and quaking aspen. Other area have	
C	Canopy Species Quaking Aspen lorthern Pin Oak White Pine	% Cover	Size Class Pole/Sapling Pole/Sapling Pole	<b>DBH</b> 6 6 7		Sub-C	anopy Specie	s Density	Avg. Height		pine and aspen mostly on the west side of the stand.Old Comments- Pockets of jack pine white pine, and quaking aspen. Other area have	
C	Canopy Species Quaking Aspen lorthern Pin Oak	<b>% Cover</b> 5 15	Size Class Pole/Sapling Pole/Sapling Pole Log/Pole	<b>DBH</b> 6 6 7 10	I Age	Sub-C	anopy Specie	s Density	Avg. Height		pine and aspen mostly on the west side of the stand.Old Comments- Pockets of jack pine white pine, and quaking aspen. Other area have	
C	Canopy Species Quaking Aspen lorthern Pin Oak White Pine	% Cover 5 15 44	Size Class Pole/Sapling Pole/Sapling Pole	<b>DBH</b> 6 6 7	I Age	Sub-C	anopy Specie	s Density	Avg. Height		pine and aspen mostly on the west side of the stand.Old Comments- Pockets of jack pine white pine, and quaking aspen. Other area have	
C	Canopy Species Quaking Aspen lorthern Pin Oak White Pine Red Pine	% Cover 5 15 44 15	Size Class Pole/Sapling Pole/Sapling Pole Log/Pole	<b>DBH</b> 6 6 7 10	I Age	Sub-C	anopy Specie	s Density	Avg. Height		pine and aspen mostly on the west side of the stand.Old Comments- Pockets of jack pine white pine, and quaking aspen. Other area have	
C	Canopy Species Quaking Aspen Iorthern Pin Oak White Pine Red Pine Jack Pine White Oak  42221 - Natural	% Cover 5 15 44 15 20 1	Size Class Pole/Sapling Pole/Sapling Pole Log/Pole Sapling/Pole XLog	DBH 6 6 7 10 4	36	Sub-C	anopy Specie	s Density	Avg. Height		pine and aspen mostly on the west side of the stand.Old Comments- Pockets of jack pine white pine, and quaking aspen. Other area have	
0 C No	Canopy Species Quaking Aspen Iorthern Pin Oak White Pine Red Pine Jack Pine White Oak  42221 - Natural	% Cover	Size Class Pole/Sapling Pole/Sapling Pole Log/Pole Sapling/Pole XLog	DBH 6 6 7 10 4 24  Sapling	36	Sub-C: Bla	anopy Specie	S Density Medium	Avg. Height 5 - 10 feet		Pockets of pole timber left during harvest (likely submerch at time).  Changed from 2 aged to even aged.	
0 C No	Canopy Species Quaking Aspen lorthern Pin Oak White Pine Red Pine Jack Pine White Oak  42221 - Natural	% Cover	Size Class Pole/Sapling Pole/Sapling Pole Log/Pole Sapling/Pole XLog  Mixed	DBH 6 6 7 10 4 24  Sapling	36 Well	Sub-C: Bla	anopy Specie	S Density Medium	Avg. Height 5 - 10 feet		Pockets of pole timber left during harvest (likely submerch at time).  Changed from 2 aged to even aged.  Old Comments: Impressive seed origin jp. The advanced regen of	
0 C No	Canopy Species Quaking Aspen lorthern Pin Oak White Pine Red Pine Jack Pine White Oak  42221 - Natural a Decid	% Cover	Size Class Pole/Sapling Pole/Sapling Pole Log/Pole Sapling/Pole XLog Mixed Size Class	DBH 6 6 7 10 4 24 Sapling	36 Well	Sub-C: Bla	anopy Specie	S Density Medium	Avg. Height 5 - 10 feet		Pockets of pole timber left during harvest (likely submerch at time). Changed from 2 aged to even aged.  Old Comments: Impressive seed origin jp. The advanced regen of oak,red pine, aspen, jp, and wp were left during harvest operations. These trees are scattered throughout and found in pockets, mostly 1 - 2	
57	Canopy Species Quaking Aspen forthern Pin Oak White Pine Red Pine Jack Pine White Oak  42221 - Natural A Decid Canopy Species Red Maple	% Cover	Size Class Pole/Sapling Pole/Sapling Pole Log/Pole Sapling/Pole XLog  Mixed  Size Class Pole	DBH 6 6 7 10 4 24 Sapling	36 Well	Sub-C: Bla	anopy Specie	S Density Medium	Avg. Height 5 - 10 feet		Pockets of pole timber left during harvest (likely submerch at time). Changed from 2 aged to even aged.  Old Comments: Impressive seed origin jp. The advanced regen of oak,red pine, aspen, jp, and wp were left during harvest operations. These trees are scattered throughout and found in pockets, mostly 1 - 2 sticks could now be considered super canopy. Cherry has filled in the	
57	Canopy Species Quaking Aspen Iorthern Pin Oak White Pine Red Pine Jack Pine White Oak  42221 - Natural Decid  Canopy Species Red Maple White Oak	% Cover	Size Class Pole/Sapling Pole/Sapling Pole Log/Pole Sapling/Pole XLog  Mixed  Size Class Pole Pole/Sapling	DBH 6 6 7 10 4 24 Sapling DBH 6 5	36 Well	Sub-C: Bla	anopy Specie	S Density Medium	Avg. Height 5 - 10 feet		Pockets of pole timber left during harvest (likely submerch at time). Changed from 2 aged to even aged.  Old Comments: Impressive seed origin jp. The advanced regen of oak,red pine, aspen, jp, and wp were left during harvest operations. These trees are scattered throughout and found in pockets, mostly 1 - 2	
57	Canopy Species Quaking Aspen Iorthern Pin Oak White Pine Red Pine Jack Pine White Oak  42221 - Natural Decid  Canopy Species Red Maple White Oak Quaking Aspen	% Cover	Size Class Pole/Sapling Pole/Sapling Pole Log/Pole Sapling/Pole XLog  Mixed  Size Class Pole Pole/Sapling Pole	DBH 6 6 7 10 4 24 Sapling BH 6 5 7	36 Well	Sub-C: Bla	anopy Specie	S Density Medium	Avg. Height 5 - 10 feet		Pockets of pole timber left during harvest (likely submerch at time). Changed from 2 aged to even aged.  Old Comments: Impressive seed origin jp. The advanced regen of oak,red pine, aspen, jp, and wp were left during harvest operations. These trees are scattered throughout and found in pockets, mostly 1 - 2 sticks could now be considered super canopy. Cherry has filled in the	
57	Canopy Species Quaking Aspen lorthern Pin Oak White Pine Red Pine Jack Pine White Oak  42221 - Natural Decid  Canopy Species Red Maple White Oak  Quaking Aspen k/Red (Hybrid) Oak	% Cover	Size Class Pole/Sapling Pole/Sapling Pole Log/Pole Sapling/Pole XLog  Mixed  Size Class Pole Pole/Sapling Pole	DBH 6 6 7 10 4 24  Sapling  DBH 6 5 7 6	36 Well	Sub-C: Bla	anopy Specie	S Density Medium	Avg. Height 5 - 10 feet		Pockets of pole timber left during harvest (likely submerch at time). Changed from 2 aged to even aged.  Old Comments: Impressive seed origin jp. The advanced regen of oak,red pine, aspen, jp, and wp were left during harvest operations. These trees are scattered throughout and found in pockets, mostly 1 - 2 sticks could now be considered super canopy. Cherry has filled in the	
57	Canopy Species Quaking Aspen lorthern Pin Oak White Pine Red Pine Jack Pine White Oak  42221 - Natural Decid  Canopy Species Red Maple White Oak Quaking Aspen k/Red (Hybrid) Oak White Pine	% Cover 5 15 44 15 20 1 1 Jack Pine, duous % Cover 10 3 5 7 2	Size Class Pole/Sapling Pole/Sapling Pole Log/Pole Sapling/Pole XLog  Mixed  Size Class Pole Pole/Sapling Pole Pole	DBH 6 6 7 10 4 24  Sapling  DBH 6 5 7 6 8	36 Well	Sub-C: Bla	anopy Specie	S Density Medium	Avg. Height 5 - 10 feet		Pockets of pole timber left during harvest (likely submerch at time). Changed from 2 aged to even aged.  Old Comments: Impressive seed origin jp. The advanced regen of oak,red pine, aspen, jp, and wp were left during harvest operations. These trees are scattered throughout and found in pockets, mostly 1 - 2 sticks could now be considered super canopy. Cherry has filled in the	



Stand	Level 4 Co	over Type	S	ize De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
58	4132 - Asp	4132 - Aspen, Jack Pine		Sapling Well		38.2	6	Immature	N/A		Stand management objective changed from Natural Jack Pine to
	Canopy Species	% Cover	Size Class	DBH	Age						Aspen/Jack Pine objective with oak being an acceptable spp through 2022 compartment review.
	Quaking Aspen	40	Sapling	1	6						Natural regen left unplanted between red pine plantation and bog.
	Jack Pine	37	Sapling	1							Harvested in 2015 under Fletcher Red Pine (72-013-12).
	Red Maple	3	Sapling	1							Old Comment: Jack pine mixed with red and white pine. Scattered
Bla	ck/Red (Hybrid) Oak	7	Sapling	1							Quaking Aspen and aspen pockets. South edge borders bog.
	White Oak	3	Sapling	1							
	Black Cherry	10	Sapling	1							
59	6127 - Lo	wland Pine	s Sa	awtimb	er Well	10.9	58	51-80	N/A		Stand is mostly lowland with a few higher spots. Transitions from upland to treed bog. Stand contains scattered legacy pines. Pockets of sub-
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	merch and pole size white pine spots. Some parts of stand appear to be
	Black Spruce	46	Pole/Log	9	58	Ta	ag Alder	Medium	5 - 10 feet	Tall Shrub	2 aged.
	White Pine	45	Pole/Log/XLog	9		Re	d Maple	Medium	Variable	Sapling	
	Red Pine	3	XLog	20		Wh	nite Pine	Medium	10 - 20 feet	Sapling	
	Jack Pine	2	Log/Pole	10							
	Quaking Aspen	2	Log/Pole	10							
	Paper Birch	2	Pole/Log	9							
60	6122 - Bl	ack Spruce		Sapling		39.9	66	1-50	N/A		Changed from non-forested to forested. North half is tamarack dominated, south half has more spruce. Called it uneven aged due
	Canopy Species	% Cover	Size Class	DBH	Age		nopy Species		Avg. Height	Size	constant disturbance associated with shallow rooted lowland species.
	Black Spruce	52	Sapling/Pole	4	66	Ta	ag Alder	High	5 - 10 feet	Tall Shrub	Overall sapling size but contains pole, log, and x-log size trees.
	Tamarack	40	Sapling/Pole	4							Old comments: Treed bog. Tamerack and some spruce. Tag elder,
	White Pine	8	Pole/Sap/Log	7							leatherleaf etc.
61	3303 - Mixed Lo	ow Density	Trees	Nonsto	cked	46.0	0		4211 - Planted	Red Pine	Yr 3 survey (10/7/2019), 14.2% mortality: 809 tpa, 57% FTG Herbicide did not get full coverage resulting live cherry and aspen every other row
						Sub-Ca	nopy Species	Density	Avg. Height	Size	effecting free to grow status. Harvested in winter of 2016, FTP
						R	ed Pine	Low	< 5 feet	Seeding	submitted to plant to jack pine (C72-801). Variance approved 8-4-2016
						Blac	ck Cherry	Medium	< 5 feet	Sapling	to change management objective to planted red pine and allow the use of herbicide if necessary. Trenched in 2016, RP planted May 2017. Yr 1
						Ja	ck Pine	Medium	< 5 feet	Seeding	regen survey found 674 RP & 2,077 C-J-A tpa. Was release sprayed by
						Quak	king Aspen	Low	< 5 feet	Seeding	skidder Sept 2018.Previous comments: Mature Jack pine stand with
											scattered Red pine and white pine. Pockets of cherry brush and some scattered Quaking Aspen and aspen pockets.
62	6225	5 - Bog		Nonsto	cked	38.4			No		Old comments: Bog. Lots of standing dead trees. Very few trees (Tamerack/Spruce). Tag alder, leatherleaf etc.



Stand	Level 4 Co	Level 4 Cover Type Size Density		Acres	Stand Age B	A Range	Managed \$	Site	General Comments		
63	6126 - Lowla	and Jack P	ine S	Sawtimbe	r Poor	4.4	66	1-50	N/A		Transition strip around bog is long-term retention from previous harvest.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Old comments: Merged jack pine buffer from adjacent harvest with this
	Quaking Aspen	2	Pole/Sapling	5		Jac	ck Pine	Low	Variable	Sapling	stand. BB bog filling in w/ jp.
	Red Pine	10	Log	14		Blac	k Cherry	Medium	Variable	Sapling	
Blad	ck/Red (Hybrid) Oak	3	Sapling/Pole	4		Black/Red	d (Hybrid) Oak	Low	Variable	Sapling	
	Black Spruce	2	Pole/Log	8		Blac	k Spruce	Trace	Variable	Sapling	
	Jack Pine	83	Log/Pole	10	66	Lea	therleaf	High	< 5 feet	Tall Shrub	
64	42220 - Nati	ural Jack P	ine s	Sawtimbe	r Well	19.9	67	81-110	N/A		Changed age from 60 to 66 years old. South side of Hunters Truck Trail
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	has full oak regen in understory. North of trail has more maple, cherry, oak mix
	Red Maple	2	Log/Pole	10		Red	d Maple	Medium	Variable	Sapling	
	White Oak	2	Log/Pole	10		Blac	k Cherry	Medium	Variable	Sapling	Old comments- Natural Jack pine stand mixed with other deciduous
	Quaking Aspen	10	Pole	8		Wh	ite Oak	Medium	Variable	Sapling	spieces.
Blad	ck/Red (Hybrid) Oak	3	Log	14		Black/Red	d (Hybrid) Oak	Medium	Variable	Sapling	
	Red Pine	15	Log/Pole	12		Hawth	norn (spp.)	Low	5 - 10 feet	Tall Shrub	
	Jack Pine	60	Log/Pole	10	67	Servicebe	rry (Juneberry)	Low	10 - 20 feet	Sapling	
	Black Spruce	5	Pole	7		Wh	ite Pine	Trace	Variable	Sapling	
	White Pine	3	Pole	8		Re	ed Pine	Trace	Variable	Sapling	
65	4139 - Aspen, I	Mixed Deci	duous	Sapling	Well	20.2	5 I	mmature	N/A		Harvested winter of 2016 under contract 72-022-12-01. Stand is fully
	Canopy Species	% Cover	Size Class	DBH	Age						stocked maple and aspen.
	Quaking Aspen	40	Sapling	1	5						Old comment: Aspen/Red Maple stand. Some large stuff and some
	Red Maple	52	Sapling	1							smaller stuff.
	Black Cherry	5	Sapling	1							
Blad	ck/Red (Hybrid) Oak	3	Sapling	1							
66	42110 - Plar	nted Red P	ine S	Sawtimbe	r Poor	26.6	96	1-50	N/A		Oak/maple came back fully stocked through most of stand with some
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	aspen on south side of hunters truck trail. North 1/3 along bog is moderately stocked and finger east of pipeline looks poorly stocked.
	Red Pine	98	Log/XLog	16	96	Black/Red	d (Hybrid) Oak	Medium	5 - 10 feet	Sapling	Natural gas pipeline runs through middle of stand with fenced in OR
	White Oak	2	Log/XLog	16		Red	d Maple	Medium	5 - 10 feet	Sapling	along edge of bog. Sheltewood harvested in 2016 under 72-022-12-01.
						Wh	ite Oak	Medium	5 - 10 feet	Sapling	Old comments: Mature Red pine plantation. Stand was thinned in 1994.
						Quak	ing Aspen	Low	5 - 10 feet	Sapling	Understory consists of primarily Oak saplings and seedlings. Some Red
						Blac	k Cherry	Low	5 - 10 feet	Sapling	maplee and Red pine seedlings.
						Jac	ck Pine	Trace	< 5 feet	Sapling	
						Blac	k Spruce	Trace	< 5 feet	Sapling	



Stand	Level 4 Co	5	Size Density			Acres Stand Age BA Range		Managed Site		General Comments	
67	6122 - Bla	ack Spruce	e P	Poletimber Well		6.7	96	51-80	N/A		Lowland Black Spruce and Jack pine too wet to harvest.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Black Spruce	50	Pole/Log	9	96	Ta	ıg Alder	Medium	Variable	Tall Shrub	
	White Pine	5	Log/Pole	10		Che	rry (spp.)	Low	Variable	Tall Shrub	
	Jack Pine	43	Pole/Log/Sap	8		Lea	atherleaf	High	Variable	Tall Shrub	
	Tamarack	2	Log	10		Re	d Maple	Medium	>20 feet	Sapling	
		,			,	Wh	nite Pine	Low	Variable	Sapling	
68	42110 - Plar	nted Red P	ine S	awtimbe	er Poor	4.0	96	51-80	N/A		Shelterwood harvested in 2016 resulted in fully stocked maple/oak coho
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Old comments- Mature Red pine plantation. Thinned in 1994 and than
	Red Pine	100	Log	16	96	Re	d Maple	High	10 - 20 feet	Sapling	thinned to 80 BA in 2002.
				,		Re	ed Pine	Trace	< 5 feet	Seeding	
						Black/Re	d (Hybrid) Oak	Medium	Variable	Sapling	
						WI	nite Oak	Low	Variable	Sapling	
69	42220 - Nati			oletimb		15.9	67	51-80	N/A		Changed stand age from 57 to 66 years old. 1 legacy tree found on sout
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	side of depression.
	White Oak	2	Pole	8			d Maple	Medium	>20 feet	Sapling	Jack pine stand with scattered red pine logs and some Oak. Stand
Blac	k/Red (Hybrid) Oak	2	Pole	8		Wh	nite Pine	Low	Variable	Sapling	should hold another 10 years.
	White Pine	5	Pole	8		Blac	ck Cherry	Low	Variable	Sapling	
	Red Pine	20	Log/XLog	15		Black/Re	d (Hybrid) Oak	High	10 - 20 feet	Sapling	
	Jack Pine	66	Pole/Log	9	67	Wh	nite Oak	Medium	10 - 20 feet	Sapling	
(	Quaking Aspen	5	Log/Pole	10		Re	ed Pine	Trace	< 5 feet	Sapling	
76	42290 - Natu	ıral Mixed F	Pine S	awtimb	er Well	4.6	81	111-140	N/A		West half of stand dominated by natural red pine, while east half of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand is white pine, jack pine, and oak dominated with lower ba. Change stand age from 93 to 80 years old. Tree cores were 76 and 83 years old.
	Red Maple	3	Pole/Log	8		Wh	nite Pine	Low	Variable	Sapling	A few older larger trees were seen, but most appear to be in that lower
Blac	k/Red (Hybrid) Oak	10	Log/Pole/XLog	11		Che	rry (spp.)	Low	Variable	Sapling	range.Old comments- This portion of stand 71 was left during the
	White Oak	2	Log/XLog	16		Black/Re	d (Hybrid) Oak	Medium	Variable	Sapling	harvest. Red pine dominant overstory mixed with Jack and white pine. Some deciduous mix especially by bog edge. Also, some black spruce
(	Quaking Aspen	2	Log/Pole	10		Re	d Maple	Medium	>20 feet	Sapling	near bog.
	Black Spruce	1	Log/Pole	10		Servicebe	rry (Juneberry)	Low	10 - 20 feet	Sapling	
	White Pine	30	Log/Pole/XLog	12	-				1	1	
	Red Pine	40	Log/XLog	15	81						
	Jack Pine	10	Pole/Log	9							
	Black Cherry	2	Pole	6							



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments	
77	42110 - Plar			Sawtimbe		6.7	82	111-140	N/A		Old Comment: This portion of stand 49 was left as retention when the rest was final harvested in 2015 (#013-12).	
	Canopy Species		Size Class	DBH								
	Red Pine	85	Log/XLog	14	82							
	Jack Pine	10	Log	10								
	Quaking Aspen	3	Pole	8								
Blac	ck/Red (Hybrid) Oak	2	Log	12								
78	42210 - Nat			awtimber			81	51-80	N/A		Changed stand age from 93 to 80 years old. Tree cores were 76 and 83 years old. A few older larger trees were seen, but most appear to be in	
	Canopy Species		Size Class	DBH			nopy Species		Avg. Height	Size	that range. Canopy closure is closer to 50% after thinning. High oak	
	Red Pine	77	Log	14	81		nite Oak	High	< 5 feet	Sapling	coverage through most of stand understory with red maple pretty steady	
	White Pine	20	Log/Pole	10		Black/Re	d (Hybrid) Oal	k Low	< 5 feet	Sapling	through as well.	
	White Oak	3	XLog/Log	18		Re	d Maple	Medium	Variable	Sapling	Old comments- Stand was thinned in winter of 2015 under contract 72-	
						Quak	king Aspen	Low	5 - 10 feet	Sapling	022-12-01.	
											Red pine dominant overstory mixed with Jack and white pine. Some deciduous mix especially by bog edge. Also, some black spruce near bo	
83 4191 - Mixed Upland Deciduous with P			Poletimber Mediui		m 13.7	40	1-50			Changed stand to 2 aged. Jack pine and aspen saplings starting to fill in gaps. Some scattered saw sized red pine through stand but mostly		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	along Fletcher road. Northwest corner is mostly immature aspen/jack pine and looks more even aged than rest of stand.Old comment-	
	Red Maple	12	Pole	8		Hawt	horn (spp.)	Trace	5 - 10 feet	Tall Shruk	Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving	
	White Oak	7	Pole	8							very thing under six inches.	
	Quaking Aspen	15	Sapling	3								
١	Northern Pin Oak	26	Pole	7	40							
	Red Pine	5	Log	12								
	Jack Pine	25	Sapling	2	17							
127	42110 - Plar	nted Red P	ine	Poletimbe	er Well	11.9	35	111-140	N/A		Stand was split from parent stand 27 since it was planted in 1985 after	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	having merch stems removed. There's enough residual mature trees (WP, RM, RP) to call stand two-aged.Stand was part of Seele Oil and	
	Red Maple	5	Log/Pole	10		Re	d Maple	Low	Variable	Sapling	Gas Mix (72-036-12). Treatment was terminated due to safety concerns.	
	White Oak	1	Pole	7		Servicebe	erry (Juneberry	/) Low	10 - 20 feet	Sapling	A lot of above ground gas lines were found after sale was set up. Area i	
Blad	ck/Red (Hybrid) Oak	2	Pole	7			ck Cherry	Medium	Variable	Sapling	known for poison gas.	
	Red Pine	75	Pole	7	35							
	Jack Pine	2	Pole	6								
	White Pine	15	Log/Pole	10	63							
401	790 - Other Bare/	Sparsely V	egetated	Nonsto	cked	8.4		Immature			Oil/gas facility. Fenced with buildings and piping.	
402	790 - Other Bare/	Sparsely V	egetated	Nonsto	cked	1.8	l	Unspecified			Oil well, Breitburn, STATE BEAVER CREEK B #17. Split and merged strip of pine along Seven Mile Rd with stand 9.	
											Old comments- Oil/gas well. Narrow strip of Jack pine on north side of stand. BCU-B17	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age BA Range	Managed Site	General Comments
403	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0	Unspecified		Oil well, Breitburn, SCHNEIDER, E. D. #2.
404	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0	Unspecified		Oil well, Breitburn, STATE BEAVER CREEK UNIT #P20A4
405	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0	Unspecified		Water injection well, Breitburn, STATE BEAVER CREEK UNIT #P20A3.
406	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9	Unspecified		Oil well, Breitburn, STATE BEAVER CREEK #A-5.
407	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2	Unspecified		Temporarily abandoned oil well, Breitburn, STATE BEAVER CREEK B #11.
408	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.4	Unspecified		Oil well plugged 7/29/2014, Breitburn, STATE BEAVER CREEK B #10.
409	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.6	Unspecified		Temporarily abandoned oil well, Breitburn, UNION & STATE BEAVER CREEK A #16.
410	3102 - Grass	Nonstocked	0.9	Unspecified		Water injection well, Breitburn, STATE BEAVER CREEK #B-3.
411	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0	Unspecified		Water injection well, Breitburn, STATE BEAVER CREEK #B-2.
412	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9	Unspecified	No	Water injection well plugged 11/22/2004, Breitburn, STATE BEAVER CREEK #B-1.
413	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.3	Unspecified		Oil well, Breitburn, STATE BEAVER CREEK B #15.
414	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.3	Unspecified		Oil well, Breitburn, STATE BEAVER CREEK B #13.
415	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.8	Unspecified		Oil well, Breitburn, STATE BEAVER CREEK B #2.
416	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9	Unspecified		Oil well, Breitburn, STATE BEAVER CREEK A #18.
417	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.3	Unspecified		Oil well, Breitburn, STATE BEAVER CREEK #L-5.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
418	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK #C3-20. Water injection well on site also, #L-2
419	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK #L-1.Pad is being encroached by Jack pine.
420	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1	0	Unspecified		Oil well, Breitburn, BEAVER CREEK UNIT (UNION) STATE BEAVER A #12. Well pad has been encroached by Jack pine since it was established.
421	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.4		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK L #8.
422	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.5		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK #L-9.
423	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.6		Unspecified		Oil well plugged 10/15/2015, Breitburn, STATE BEAVER CREEK L #7.
424	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.9		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK A #14. North 1/4 of pad is being encrouched by Jack pine.
425	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9		Unspecified		Water injection well, Breitburn, STATE BEAVER CREEK #L-4.
426	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified		Temporarily abandoned oil well, Breitburn, STATE BEAVER CREEK #L-3.
427	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Immature		Water injection well, Breitburn, STATE BEAVER CREEK #L-6.
428	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK #L-10.
429	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		Unspecified		Oil well, Breitburn, STATE BEAVER CREEK #L-11.
430	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.3		Unspecified		Terminated permit, Union Oil of California, STATE BEAVER CREEK #L-12.
							Old comment-Oil/gas well facility/pumping station.
431	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.5	0	Unspecified		Oil well, Breitburn, STATE BEAVER CREEK #A-6.
							Old comments: Oil/gas well. East side of sstand waas an old landing when stand 66 was harvested. Regenerating to Jack pine and Aspen. BCU-A6-SUN



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age BA Range	Managed Site	General Comments
432	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.8	Unspecified		Oil well, Breitburn, STATE BEAVER CREEK #A3-29 and temporarily abandoned water injection well, Breitburn, STATE BEAVER CREEK #A-9.
433	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.6	Unspecified		Temporarily abandoned oil well, Breitburn, STATE BEAVER CREEK C #1.
434	330 - Low-Density Trees	Nonstocked	1.7	Unspecified	No	EGLE GeoWebFace map shows a terminated permit for Oil well, Breitburn, STATE BEAVER CREEK (DRZ3) #A1-29. Aerial photos show pad was put sometime between 2005 and 2009.
						Stand is starting to fill in with jack pine and cherry with aspen towards west side. Well pad does not appear to be in use.
435	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.6	Unspecified		Water injection well, Breitburn, STATE BEAVER CREEK A-8.
						Old comments- Oil/gas well. Water injection well DRZ B4-29 Beaver Creek Field and BCU -A8-SUN. Jack and Red pine encroaching upon the pad.
436	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.7	Unspecified		Temporarily abandoned oil well, Breitburn, STATE BEAVER CREEK (DRZ3) #B2-29.
437	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.6	Unspecified		Temporarily abandoned oil well, Breitburn, STATE BEAVER CREEK D4-29.
450	122 - Road/Parking Lot	Nonstocked	9.3	Unspecified	No	7 Mile Road and Seeley Rd/pipeline corridor.
451	122 - Road/Parking Lot	Nonstocked	6.7	Unspecified	No	Fletcher Road - paved.
452	122 - Road/Parking Lot	Nonstocked	10.2	0 Unspecified	No	Pipeline and road corridors.
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