GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Inspection Report

Representatives Present During the Inspection:	
OGM	Joe Helfrich
OGM	Rachel Williams

Permit Number:	**C0250005**
Inspection Type:	TECHNICAL
Inspection Date:	Tuesday, April 14, 2015
Start Date/Time:	4/14/2015 6:45:00 AM
End Date/Time:	4/14/2015 9:30:00 AM
Last Inspection:	Monday, March 23, 2015

Inspector: Joe Helfrich,

Weather: Sunny partly cloudy 45

InspectionID Report Number: 4164

Accepted by: JHELFRIC
4/27/2015

Permitee: **ALTON COAL DEVELOPMENT LLC**
Operator: **ALTON COAL DEVELOPMENT LLC**
Site: **COAL HOLLOW**
Address: **463 North 100 West, Suite 1, CEDAR CITY UT 84720**
County: **KANE**
Permit Type: **PERMANENT COAL PROGRAM**
Permit Status: **ACTIVE**

Current Acreages

721.00	**Total Permitted**
342.00	**Total Disturbed**
	Phase I
	Phase II
	Phase III

Mineral Ownership

- [x] Federal
- [ ] State
- [ ] County
- [x] Fee
- [ ] Other

Types of Operations

- [ ] Underground
- [x] Surface
- [ ] Loadout
- [ ] Processing
- [ ] Reprocessing

Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

The purpose of this site visit was to conduct a lek survey, and take photographs and measurements of some of the Pinyon/Juniper trees that had been felled by ACD in the BLM 355 acre parcel. Two previous lek surveys were also conducted on March10 and 31. Copies of the three survey reports are included in this report.

Notice of Violation 18150 was issued to Alton Coal Development LLC as a result of the inspections conducted on February 11, March 10 and April 14, 2015. A description of the violation and the required abatement measures are included under Item 9, (Protection of Fish Wildlife and Related Environmental Values), of this report. Photographs of the March 10 and April 14 site visits are also included in this report.

Inspector's Signature: Joseph C. Helfrich
Joe Helfrich,
Inspector ID Number: 1

Date Monday, April 27, 2015

Note: This inspection report does not constitute an affidavit of compliance with the regulatory program of the Division of Oil, Gas and Mining.

Permit Number: C0250005
Inspection Type: TECHNICAL
Inspection Date: Tuesday, April 14, 2015

Inspection Continuation Sheet

REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS

1. *Substantiate the elements on this inspection by checking the appropriate performance standard.*
   a. *For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.*
   b. *For PARTIAL inspections check only the elements evaluated.*
2. *Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.*
3. *Reference any narratives written in conjunction with this inspection at the appropriate performace standard listed below.*
4. *Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.*

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	☐	☐	☐	☐
2. Signs and Markers	☐	☐	☐	☐
3. Topsoil	☐	☐	☐	☐
4.a Hydrologic Balance: Diversions	☐	☐	☐	☐
4.b Hydrologic Balance: Sediment Ponds and Impoundments	☐	☐	☐	☐
4.c Hydrologic Balance: Other Sediment Control Measures	☐	☐	☐	☐
4.d Hydrologic Balance: Water Monitoring	☐	☐	☐	☐
4.e Hydrologic Balance: Effluent Limitations	☐	☐	☐	☐
5. Explosives	☐	☐	☐	☐
6. Disposal of Excess Spoil, Fills, Benches	☐	☐	☐	☐
7. Coal Mine Waste, Refuse Piles, Impoundments	☐	☐	☐	☐
8. Noncoal Waste	☐	☐	☐	☐
9. Protection of Fish, Wildlife and Related Environmental Issues	☑	☐	☑	☐
10. Slides and Other Damage	☐	☐	☐	☐
11. Contemporaneous Reclamation	☐	☐	☐	☐
12. Backfilling And Grading	☐	☐	☐	☐
13. Revegetation	☐	☐	☐	☐
14. Subsidence Control	☐	☐	☐	☐
15. Cessation of Operations	☐	☐	☐	☐
16.a Roads: Construction, Maintenance, Surfacing	☐	☐	☐	☐
16.b Roads: Drainage Controls	☐	☐	☐	☐
17. Other Transportation Facilities	☐	☐	☐	☐
18. Support Facilities, Utility Installations	☐	☐	☐	☐
19. AVS Check	☐	☐	☐	☐
20. Air Quality Permit	☐	☐	☐	☐
21. Bonding and Insurance	☐	☐	☐	☐
22. Other	☐	☐	☐	☐

9. Protection of Fish, Wildlife and Related Environmental Issues

ACD has twice failed to complete sage-grouse mitigation work for the 355-acre project (that was identified in Appendix 3-7 of the approved MRP) on time. The September 19, 2013 BLM letter authorized the "removal of pinyon and juniper tress within the 355 acres." At an October 24, 2013 meeting where ACD's skilled biologists were present, the Division of Wildlife Resources (DWR) explained what standards were necessary for the mitigation work to benefit the sage grouse population. On October 28, 2013, the Division of Oil, Gas and Mining (DOGM) approved an amendment to the Mining Reclamation Plan (MRP), which included a requirement that the stump height of any felled tree would not exceed six (6) inches. ACD failed to meet this standard by the beginning of the 2014 February-to-July mating season. The BLM later clarified what standard it required on its land in its February 28, 2014, which wassubsequently amended to the MRP on March 21, 2014. That amendment stated "[a]fter assessment of the project in early 2014 by the BLM, it was decided that additional work needed to be done in the appropriate season of 2014 as per the letter dated 3/3/2014 from [the BLM]. . . ." Again, ACD failed to complete the additional work required to meet those standards that the BLM, DWR, and DOGM have provided to ACD by the end of the working season of 2014 and 2015. At the beginning of the 2015 February-to-July mating season, the 355-acre project has still not been treated to the required standard.

Action(s) required:

ACD must do one of two things:

(1) Provide an amendment to the MRP that expressly includes the standards provided by DWR, BLM, and DOGM by May 18, 2015. That amendment must include a deadline to complete the work to the above standards by October 31, 2015 or eight (8) weeks after DWR or DOGM has confirmed that it is a safe time to begin mitigation work, whichever date is earlier.

(2) Establish and fund a project with the Utah Partners in Conservation Development (UPCD) by July 1, 2015 to finish the work on this 355-acre area.

In addition, ACD must provide an amendment to the MRP by May 18, 2015 that gives specific and detailed plans for the 240-acre mitigation project for the calendar year 2015, with a deadline of December 31, 2015.

SAGE-GROUSE LEK COUNTING FORM

Lek Name: _Alton Sink Valley_____ County: _Kane_____ Year: 2015_____

UTM (NAD 83): 370586.006 E, 4138593.793N Observer: JOE HELFRICH

Status (Occupied, Unoccupied/Active, Inactive): OCCUPIED/ACTIVE_____

Site Description and Habitat Type: MECHANICALLY TREATED PINYON/JUNIPER SAGEBRUSH_____

DATE	# OF MALES	TEMP	WIND VELOCITY	% CLOUD COVER	COMMENTS
03/10/2015	12	42 raining	4-7	100	Birds were observed lekking on 4-6"of snow

INSTRUCTIONS

1. A minimum of three counts should be made at approximate weekly intervals between March 20 and May 7. Maximum seasonal count should be observed after the peak of breeding.
2. Make all counts from 1/2 hour before to 1 1/2 hours after sunrise.
3. Record the maximum number of males observed on the lek each date visited in space provided above. Each lek should be counted 3 to 5 times each morning to determine the maximum number of males.
4. Use a separate form for each lek.
5. Record weather conditions as specified below.
6. Record other observations or comments such as: disturbances to the birds (eagles, coyotes), the presence of hens and if breeding is occurring, snow conditions, and if you determined the count was good.
7. Completed forms should be returned to the Regional Office no later than May 15; and to **SLO by June 1**.

Beaufort Wind Scale:

Calm	smoke rises vertically, leaves motionless
1-3 mph	smoke drifts, leaves move slightly
4-7 mph	wind felt on face
8-12 mph	leaves move constantly
13-18 mph	dust rises, small branches move

<OVER>

SAGE-GROUSE LEK LOCATION FORM

LEK NAME:_Alton Sink Valley_____ YEAR LOCATED:_2011_____

COUNTY: Kane_____ USGS 7.5 QUAD:_Alton_____

TOWNSHIP:_39 SOUTH_____ RANGE:5 WEST_____ SEC:_30____ ¼_SE___ ¼_SW___

UTMs:_370586.006____E 4138593.793_____N (GPS SHOUD BE SET TO NAD83)

UTM collected by (check one): GPS_____ MAP___X_____

Dominate Vegetation Type:_SAGEBRUSH_____

Secondary Vegetation Type:_GRASS_____

Land Ownership: BLM_____ Elevation:__6896'_____

General Comments:

Driving Directions: (Give driving directions from a major road or prominent location)
4 TO 4.5 MILES SOUTH OF THE TOWN OF ALTON ALONG THE COUNTY BY-PASS ROAD

Datasheet Instructions

Lek Name:	Unique name given to lek. Adjacent major landmark or map feature often used to identify lek.
Year Located:	Year lek was initially located and counted.
County:	County where lek is located.
USGS 7.5-minute Quad:	Name of quad map where lek is located.
Township	Township where lek is located
Range:	Range where lek is located.
Sec.	Section number where lek is located.
¼:	Sub-quarter section where lek is located. Use NW, NE, SW, SE.
¼:	Quarter section where lek is located. Use NW, NE, SW, SE.
UTM Easting	UTM easting of lek. Should be six (6) numbers long.
UTM Northing	UTM northing of lek. Should be seven (7) numbers long and begin with 4.
	UTM data should be collected in North American Datum 1983 (NAD83)
Dominant Vegetation:	Indicate the dominant vegetation around lek.
Secondary Vegetation:	Indicate secondary vegetation around lek (if needed).
Land Ownership:	Indicate the proper ownership of land where lek is located (e.g. private, USFS, BLM, SITLA, Tribal).
Elevation	Elevation of lek in FEET.

Comments:	Any pertinent comments helpful in describing lek location not covered above.
Driving Directions:	Concise driving directions to lek. Start directions at an easily located landmark.

SAGE-GROUSE LEK SEARCH AND STATUS FORM

Each flush site, lek search, and all lek counts should be reported (even where no birds are seen).

- Arrive at search site at least **15** minutes before dawn.
- Mark a topo map in pencil with the present lek position or search area.
- Return maps and data sheets to UDWR Regional Offices or Search coordinator

Lek Name (nearest lek): _____

Observer Name(s)_____

Date: _____Time Start: _____Time End: _____ Total Minutes Observed: _____

Current location via UTM (correct the location on maps if needed):

_____ _____

UTM (E) or Longitude UTM (N) or Latitude

UTM Zone (circle one): **11 12 13**

DATUM of UTM or LatLong coordinates (circle one): NAD27 **NAD83** WGS84

T_____/R_____/S_____/_____¼/_____¼-¼
Township/ Range / Section /¼ section / ¼-¼ section

Land Ownership (circle one): Public/Private County: _____

Survey Type (circle one): **S**earch, **S**tatus, or **C**ount (if strutting birds are discovered)

Survey Method (circle one): **V**ehicle or **F**oot

Sky (circle one): **C**lear, **P**artly Cloudy, **O**vercast, **R**aining, **S**nowing

Wind Speed: _____ (see Beaufort scale)

Air Temp (circle one): _____ **F C**

Disturbance: (circle one) **L**ow, **M**oderate, **H**igh

Count Quality: (circle one) **L**ow, **M**od, **H**igh

Beaufort Wind Speed Scale:
0 (< 1mph, smoke rises vertically)
1 (1-3 mph, wind direction shown by smoke drift)
2 (4-7 mph, wind felt on face, leaves rustle)
3 (8-12 mph, leaves and twigs in constant motion)
4 (> 13 mph – DO NOT RUN A LISTENING ROUTE)

Lek Status (circle one): **A**ctive / **I**nactive / **U**nknown / **P**robably **S**atellite

New Lek (circle one): **Y**es **N**o

Dog Used (searches only)? _____

Number of Birds: _____ _____/_____/_____

(Total) (Males) (Females) (Unclassified)

<OVER>

Cheat grass present ? No_____ Yes_____ Not determined _____
If yes: Scarce/spotty_____ Moderate_____ Abundant_____

Other weeds?_____

Grouse droppings present? No_____ Yes_____ Not determined _____
UTM locations of groups of piles:
E_____N_____
E_____N_____
E_____N_____

Presence of:
Wetlands, wet meadows, water developments: No_____ Yes_____
Type & distance to lek:_____

Utility poles/lines No_____ Yes_____ Est. distance to lek: _____

Fences and fence posts No_____ Yes_____ Est. distance to lek: _____

Trees (e.g., junipers, riparian) No_____Yes_____Est. distance to lek: _____

Trails and/or roads No_____ Yes_____ Est. distance to lek: _____

Size (circle one): Trail / two-track / ranch road / improved road / paved road
Estimated traffic: Scarce / light / moderate / heavy

Recent land disturbances? (e.g. burns, sod busting, oil and gas development, new structures, roads, other alterations?)_____

Habitat Description/Condition:

A. **Land Cover Types**

General land cover type description: percent of **S**agebrush-**G**rassland:_____ **I**ntroduced **P**asture:____ and **C**ropland:____ within 1 mile of lek. Categories: <5%=1, 5-50%=2, 50-95%=3, >95%=4 (Place number in blank)

B. **Land Cover Status**

Has the amount of sagebrush cover changed between this year and last year? Y N (circle), if Y then indicate % change._____%; unknown_____%.

C. **Residual Cover Status**

Indicate quality/quantity of the herbaceous cover as **G**ood (good growth during previous year, no to light grazing, good residual cover), **A**verage (moderate growth and/or grazing pressure, residual cover patchy), or **P**oor (previous growing season dry or heavy grazing pressure, little residual cover). Circle good, average, or poor descriptor.

Comments (Take picture of lek and attach):

_____

SAGE-GROUSE LEK COUNTING FORM

Lek Name: _Alton Sink Valley_____ County: _Kane_____ Year: 2015_____

UTM (NAD 83): 370586.006 E, 4138593.793N Observer: JOE HELFRICH

Status (Occupied, Unoccupied/Active, Inactive): OCCUPIED/ACTIVE_____

Site Description and Habitat Type: MECHANICALLY TREATED PINYON/JUNIPER SAGEBRUSH_____

DATE	# OF MALES	TEMP	WIND VELOCITY	% CLOUD COVER	COMMENTS
03/31/2015	8	55	4-7	10	

INSTRUCTIONS

1. A minimum of three counts should be made at approximate weekly intervals between March 20 and May 7. Maximum seasonal count should be observed after the peak of breeding.
2. Make all counts from 1/2 hour before to 1 1/2 hours after sunrise.
3. Record the maximum number of males observed on the lek each date visited in space provided above. Each lek should be counted 3 to 5 times each morning to determine the maximum number of males.
4. Use a separate form for each lek.
5. Record weather conditions as specified below.
6. Record other observations or comments such as: disturbances to the birds (eagles, coyotes), the presence of hens and if breeding is occurring, snow conditions, and if you determined the count was good.
7. Completed forms should be returned to the Regional Office no later than May 15; and to **SLO by June 1**.

Beaufort Wind Scale:

Calm	smoke rises vertically, leaves motionless
1-3 mph	smoke drifts, leaves move slightly
4-7 mph	wind felt on face
8-12 mph	leaves move constantly
13-18 mph	dust rises, small branches move

<OVER>

SAGE-GROUSE LEK LOCATION FORM

LEK NAME:_Alton Sink Valley_____ YEAR LOCATED:_2011_____

COUNTY: Kane_____ USGS 7.5 QUAD:_Alton_____

TOWNSHIP:_39 SOUTH_____ RANGE:5 WEST_____ SEC:_30____ ¼_SE___ ¼_SW___

UTMs:_370586.006____E 4138593.793_____N (GPS SHOUD BE SET TO NAD83)

UTM collected by (check one): GPS_____ MAP___X_____

Dominate Vegetation Type:_SAGEBRUSH_____

Secondary Vegetation Type:_GRASS_____

Land Ownership: BLM_____ Elevation:__6896'_____

General Comments:

Driving Directions: (Give driving directions from a major road or prominent location)
4 TO 4.5 MILES SOUTH OF THE TOWN OF ALTON ALONG THE COUNTY BY-PASS ROAD

Datasheet Instructions

Lek Name:	Unique name given to lek. Adjacent major landmark or map feature often used to identify lek.
Year Located:	Year lek was initially located and counted.
County:	County where lek is located.
USGS 7.5-minute Quad:	Name of quad map where lek is located.
Township	Township where lek is located
Range:	Range where lek is located.
Sec.	Section number where lek is located.
¼:	Sub-quarter section where lek is located. Use NW, NE, SW, SE.
¼:	Quarter section where lek is located. Use NW, NE, SW, SE.
UTM Easting	UTM easting of lek. Should be six (6) numbers long.
UTM Northing	UTM northing of lek. Should be seven (7) numbers long and begin with 4.
	UTM data should be collected in North American Datum 1983 (NAD83)
Dominant Vegetation:	Indicate the dominant vegetation around lek.
Secondary Vegetation:	Indicate secondary vegetation around lek (if needed).
Land Ownership:	Indicate the proper ownership of land where lek is located (e.g. private, USFS, BLM, SITLA, Tribal).
Elevation	Elevation of lek in FEET.

Comments:	Any pertinent comments helpful in describing lek location not covered above.
Driving Directions:	Concise driving directions to lek. Start directions at an easily located landmark.

SAGE-GROUSE LEK SEARCH AND STATUS FORM

Each flush site, lek search, and all lek counts should be reported (even where no birds are seen).

- Arrive at search site at least **15** minutes before dawn.
- Mark a topo map in pencil with the present lek position or search area.
- Return maps and data sheets to UDWR Regional Offices or Search coordinator

Lek Name (nearest lek): _____

Observer Name(s)_____

Date: _____Time Start: _____Time End: _____ Total Minutes Observed: _____

Current location via UTM (correct the location on maps if needed):

_____ _____

UTM (E) or Longitude UTM (N) or Latitude

UTM Zone (circle one): **11 12 13**

DATUM of UTM or LatLong coordinates (circle one): NAD27 **NAD83** WGS84

T_____/R_____ /S_____ /_____¼ /_____¼-¼

Township/ Range / Section /¼ section / ¼-¼ section

Land Ownership (circle one): Public/Private County: _____

Survey Type (circle one): **S**earch, **S**tatus, or **C**ount (if strutting birds are discovered)

Survey Method (circle one): **V**ehicle or **F**oot

Sky (circle one): **C**lear, **P**artly Cloudy, **O**vercast, **R**aining, **S**nowing

Wind Speed: _____ (see Beaufort scale)

Air Temp (circle one): _____ **F C**

Disturbance: (circle one) **L**ow, **M**oderate, **H**igh

Count Quality: (circle one) **L**ow, **M**od, **H**igh

Beaufort Wind Speed Scale:
0 (< 1mph, smoke rises vertically)
1 (1-3 mph, wind direction shown by smoke drift)
2 (4-7 mph, wind felt on face, leaves rustle)
3 (8-12 mph, leaves and twigs in constant motion)
4 (> 13 mph – DO NOT RUN A LISTENING ROUTE)

Lek Status (circle one): **A**ctive / **I**nactive / **U**nknown / **P**robably **S**atellite

New Lek (circle one): **Y**es **N**o

Dog Used (searches only)? _____

Number of Birds: _____ _____/_____/_____

(Total) (Males) (Females) (Unclassified)

<OVER>

Cheat grass present ? No_____ Yes_____ Not determined _____
If yes: Scarce/spotty_____ Moderate_____ Abundant_____

Other weeds?_____

Grouse droppings present? No_____ Yes_____ Not determined _____
UTM locations of groups of piles:
E_____N_____
E_____N_____
E_____N_____

Presence of:
Wetlands, wet meadows, water developments: No_____ Yes_____
Type & distance to lek:_____

Utility poles/lines No_____ Yes_____ Est. distance to lek: _____

Fences and fence posts No_____ Yes_____ Est. distance to lek: _____

Trees (e.g., junipers, riparian) No_____Yes_____Est. distance to lek: _____

Trails and/or roads No_____ Yes_____ Est. distance to lek: _____

Size (circle one): Trail / two-track / ranch road / improved road / paved road
Estimated traffic: Scarce / light / moderate / heavy

Recent land disturbances? (e.g. burns, sod busting, oil and gas development, new structures, roads, other alterations?)_____

Habitat Description/Condition:

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General land cover type description: percent of **S**agebrush-**G**rassland:_____ **I**ntroduced **P**asture:____ and **C**ropland:____ within 1 mile of lek. Categories: <5%=1, 5-50%=2, 50-95%=3, >95%=4 (Place number in blank)

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Comments (Take picture of lek and attach):

_____

SAGE-GROUSE LEK COUNTING FORM

Lek Name: _Alton Sink Valley_____ County: _Kane_____ Year: 2015_____

UTM (NAD 83): 370586.006 E, 4138593.793N Observer: JOE HELFRICH, RACHEL WILLIAMS
Status (Occupied, Unoccupied/Active, Inactive): OCCUPIED/ACTIVE_____

Site Description and Habitat Type: MECHANICALLY TREATED PINYON/JUNIPER SAGEBRUSH_____

DATE	# OF MALES	TEMP	WIND VELOCITY	% CLOUD COVER	COMMENTS
04/14/2015	8	38-52	Calm	0	Wind picked up to 8-10 MPH by 8:30 AM

INSTRUCTIONS

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2. Make all counts from 1/2 hour before to 1 1/2 hours after sunrise.
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<OVER>

SAGE-GROUSE LEK LOCATION FORM

LEK NAME:_Alton Sink Valley_____ YEAR LOCATED:_2011_____

COUNTY: Kane_____ USGS 7.5 QUAD:_Alton_____

TOWNSHIP:_39 SOUTH_____ RANGE:5 WEST_____ SEC:_30____ ¼_SE___ ¼_SW___

UTMs:_370586.006____E 4138593.793_____N (GPS SHOUD BE SET TO NAD83)

UTM collected by (check one): GPS_____ MAP___X_____

Dominate Vegetation Type:_SAGEBRUSH_____

Secondary Vegetation Type:_GRASS_____

Land Ownership: BLM_____ Elevation:__6896'_____

General Comments:

Driving Directions: (Give driving directions from a major road or prominent location)
4 TO 4.5 MILES SOUTH OF THE TOWN OF ALTON ALONG THE COUNTY BY-PASS ROAD

Datasheet Instructions

Lek Name:	Unique name given to lek. Adjacent major landmark or map feature often used to identify lek.
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County:	County where lek is located.
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Township	Township where lek is located
Range:	Range where lek is located.
Sec.	Section number where lek is located.
¼:	Sub-quarter section where lek is located. Use NW, NE, SW, SE.
¼:	Quarter section where lek is located. Use NW, NE, SW, SE.
UTM Easting	UTM easting of lek. Should be six (6) numbers long.
UTM Northing	UTM northing of lek. Should be seven (7) numbers long and begin with 4.
	UTM data should be collected in North American Datum 1983 (NAD83)
Dominant Vegetation:	Indicate the dominant vegetation around lek.
Secondary Vegetation:	Indicate secondary vegetation around lek (if needed).
Land Ownership:	Indicate the proper ownership of land where lek is located (e.g. private, USFS, BLM, SITLA, Tribal).
Elevation	Elevation of lek in FEET.

Comments:	Any pertinent comments helpful in describing lek location not covered above.
Driving Directions:	Concise driving directions to lek. Start directions at an easily located landmark.

SAGE-GROUSE LEK SEARCH AND STATUS FORM

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- Arrive at search site at least **15** minutes before dawn.
- Mark a topo map in pencil with the present lek position or search area.
- Return maps and data sheets to UDWR Regional Offices or Search coordinator

Lek Name (nearest lek): _____

Observer Name(s)_____

Date: _____Time Start: _____Time End: _____ Total Minutes Observed: _____

Current location via UTM (correct the location on maps if needed):

_____ _____

UTM (E) or Longitude UTM (N) or Latitude

UTM Zone (circle one): **11 12 13**

DATUM of UTM or LatLong coordinates (circle one): NAD27 **NAD83** WGS84

T_____/R_____ /S_____ /_____¼ /_____¼-¼
Township/ Range / Section /¼ section / ¼-¼ section

Land Ownership (circle one): Public/Private County: _____

Survey Type (circle one): **S**earch, **S**tatus, or **C**ount (if strutting birds are discovered)

Survey Method (circle one): **V**ehicle or **F**oot

Sky (circle one): **C**lear, **P**artly Cloudy, **O**vercast, **R**aining, **S**nowing

Wind Speed: _____ (see Beaufort scale)

Air Temp (circle one): _____ **F C**

Disturbance: (circle one) **L**ow, **M**oderate, **H**igh

Count Quality: (circle one) **L**ow, **M**od, **H**igh

Beaufort Wind Speed Scale:
0 (< 1mph, smoke rises vertically)
1 (1-3 mph, wind direction shown by smoke drift)
2 (4-7 mph, wind felt on face, leaves rustle)
3 (8-12 mph, leaves and twigs in constant motion)
4 (> 13 mph – DO NOT RUN A LISTENING ROUTE)

Lek Status (circle one): **A**ctive / **I**nactive / **U**nknown / **P**robably **S**atellite

New Lek (circle one): **Y**es **N**o

Dog Used (searches only)? _____

Number of Birds: _____ _____/_____/_____

(Total) (Males) (Females) (Unclassified)

<OVER>

Cheat grass present ? No_____ Yes_____ Not determined _____
If yes: Scarce/spotty_____ Moderate_____ Abundant_____

Other weeds?_____

Grouse droppings present? No_____ Yes_____ Not determined _____
UTM locations of groups of piles:
E_____N_____
E_____N_____
E_____N_____

Presence of:
Wetlands, wet meadows, water developments: No_____ Yes_____
Type & distance to lek:_____

Utility poles/lines No_____ Yes_____ Est. distance to lek: _____

Fences and fence posts No_____ Yes_____ Est. distance to lek: _____

Trees (e.g., junipers, riparian) No_____Yes_____Est. distance to lek: _____

Trails and/or roads No_____ Yes_____ Est. distance to lek: _____

Size (circle one): Trail / two-track / ranch road / improved road / paved road
Estimated traffic: Scarce / light / moderate / heavy

Recent land disturbances? (e.g. burns, sod busting, oil and gas development, new structures, roads, other alterations?)_____

Habitat Description/Condition:

A. **Land Cover Types**

General land cover type description: percent of **S**agebrush-**G**rassland:_____ **I**ntroduced **P**asture:____ and **C**ropland:____ within 1 mile of lek. Categories: <5%=1, 5-50%=2, 50-95%=3, >95%=4 (Place number in blank)

B. **Land Cover Status**

Has the amount of sagebrush cover changed between this year and last year? Y N (circle), if Y then indicate % change._____%; unknown_____%.

C. **Residual Cover Status**

Indicate quality/quantity of the herbaceous cover as **G**ood (good growth during previous year, no to light grazing, good residual cover), **A**verage (moderate growth and/or grazing pressure, residual cover patchy), or **P**oor (previous growing season dry or heavy grazing pressure, little residual cover). Circle good, average, or poor descriptor.

Comments (Take picture of lek and attach):

_____

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03/11/2015 15:21

03/11/2015 15:22

03/11/2015 15:22

03/11/2015 15:23

03/11/2015 15:23

03/11/2015 15:24

03/11/2015 15:24

03/11/2015 15:25

03/11/2015 15:26

04/14/2015 07:01

04/14/2015 07:01

04/14/2015 07:01

04/14/2015 07:02

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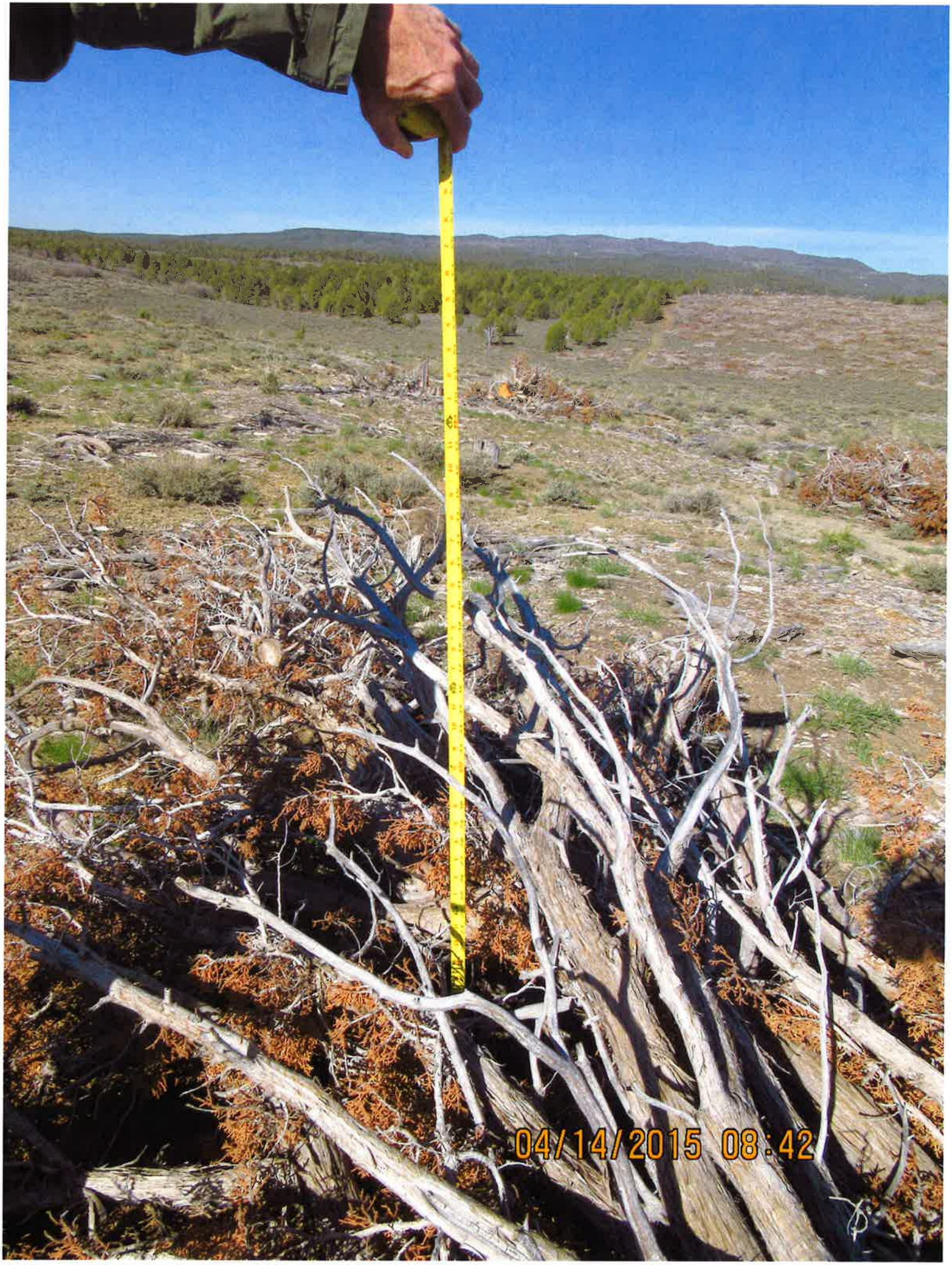
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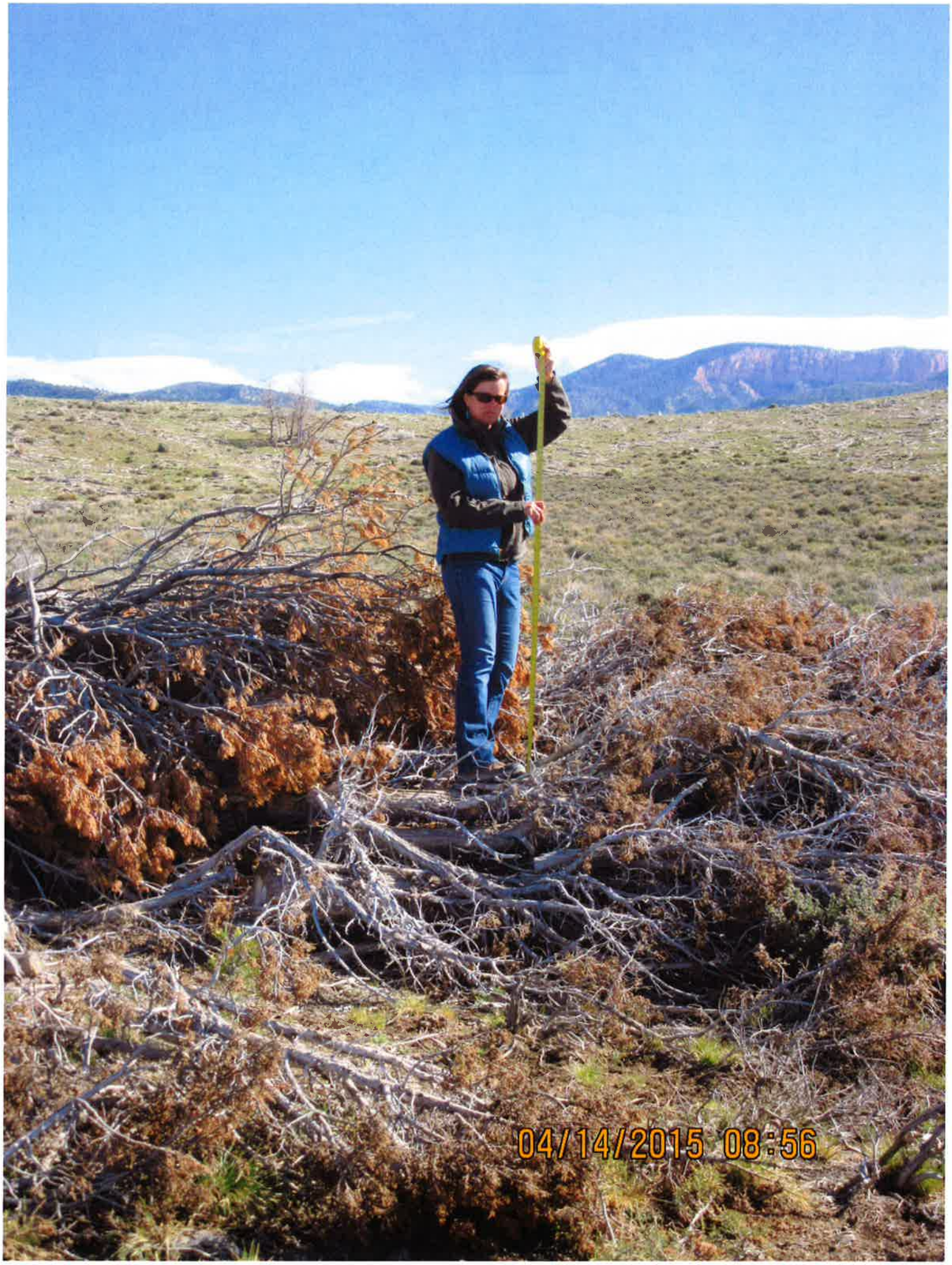
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