

OAHP Use Only: OAHP Doc. No. _____ OAHP Project No. _____

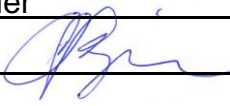
Colorado Office of Archaeology and Historic Preservation

LIMITED-RESULTS CULTURAL RESOURCE SURVEY FORM

(page 1 of 4)

Small scale limited results projects include block surveys under 160 acres with linear surveys under four miles. Additionally, there should be no sites and a maximum of four Isolated Finds. This form must be typed.

I. IDENTIFICATION

1. Report Title (include County): A Class III Cultural Resource Inventory of Bonanza Creek Energy's State Antelope 34-12 1XRL Well and Access Road Alternatives, Weld County, Colorado
2. Date of Field Work: September 6, 2012
3. Form completed by: Christian J. Zier Date: September 6, 2012
4. Survey Organization/Agency: Centennial Archaeology, Inc.
Principal Investigator: Christian J. Zier
Principal Investigator's Signature: 
Other Crew: None
Address: 300 E. Boardwalk, Building 4-C, Fort Collins, Colorado 80525
5. Lead Agency / Land Owner: State of Colorado
Contact: None
Address: _____
6. Client: Bonanza Creek Energy, Inc.
7. Permit Type and Number: State of Colorado Archaeological Permit No. 2012-13
8. Report / Contract Number: N/A
9. Comments: _____

II. DESCRIPTION OF UNDERTAKING / PROJECT

10. Type of Undertaking: Proposed oil well including pad and two alternative access routes.
11. Size of Undertaking (acres): 5.74 acres Size of Project (if different) 13.59 acres surveyed
12. Nature of the Anticipated Disturbance: Grading of 500 ft x 500 ft well pad and blading of one new, short access road.

13. Comments: (1) Two access route alternatives were surveyed, one approaching the pad from the northeast and the other from the south. Only one road will be built. (2) A 100-ft buffer surrounding the well pad was surveyed, resulting in a total survey area for the pad of 700 ft x 700 ft.

III. PROJECT LOCATION

Please attach a photocopy of USGS Quad. clearly showing the project location. The Quad. should be clearly labeled with the Prime Meridian, Township, Range, Section(s), Quad. map name, size, and date. Please do not reduce or enlarge the photocopy.

14. Description: The project area is located in eastern Weld County, north of the South Platte River and approximately 4 miles north of Riverside Reservoir.

15. Legal Location: Quad. Map: Point of Rocks, Colorado Date(s): 1951

Principal Meridian: 6th X NM Ute

NOTE: Only generalized subdivision ("quarter quarters") within each section is needed

Township: 5N Range: 62W Sec.: 12, SW¼/SE¼ and SE¼/SE¼; Sec. 13, NW¼/NE¼

(note: sections are projected; the survey area is unplatted)

If section(s) is irregular, explain alignment method: N/A

16. Total number of acres surveyed: 13.59

17. Comments:

IV. ENVIRONMENT

18. General Topographic Setting: Stabilized Pleistocene and/or Holocene sand dunes on the north side of the South Platte River. Terrain is undulating and generally south-sloping.

Current Land Use: Primarily oil and gas extraction and related activities; livestock grazing.

19. Flora: Sand sage dominant; also western wheatgrass, sideoats grama, western wheatgrass, and other grasses, prickly pear, yucca, and prickly poppy; Russian thistle grows along the margins of some two-track roads

20. Soils/Geology: Deep, well drained tan sand; total depth unknown

21. Ground Visibility: Average of 50%

22. Comments: Survey conditions were excellent: warm, dry, with high clouds and muted sunlight

V. LITERATURE REVIEW

23. Location of File Search: Colorado OAHIP Compass and Centennial Archaeology, Inc. files
Date: September 6, 2012
24. Previous Survey Activity In the project area: The existing oil field road to the south of the
subject well pad, from which the southern access route alternative originates, was
surveyed by Centennial Archaeology, Inc. in March 2012.

III. LITERATURE REVIEW (continued)

In the general region: A number of surveys have been conducted for wells, pipelines,
and highway projects in the area.

25. Known Cultural Resources In the project area: 5WL6941 (prehistoric site), 150 m west of
well pad; 5WL6942 (prehistoric site), 350 m east of well pad; 5WL6944 (prehistoric site)
and 5WL6943 and 5WL6945 (prehistoric IFs), approximately one mile west of well pad.

In the general region (summarize): The sand dunes north of the South Platte River do
yield prehistoric sites and isolated artifacts although these materials tend to be sparse in
comparison to those associated with the terraces on the south side of the river, where
Paleoindian through historic period materials have been documented.

26. Expected Results: Prehistoric materials are scattered widely in the project vicinity,
although a survey of this scope may be expected to yield negative results.
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VI. STATEMENT OF OBJECTIVES

27. To conduct a pedestrian survey for cultural resources and appropriately document any
such resources discovered.
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VII. FIELD METHODS

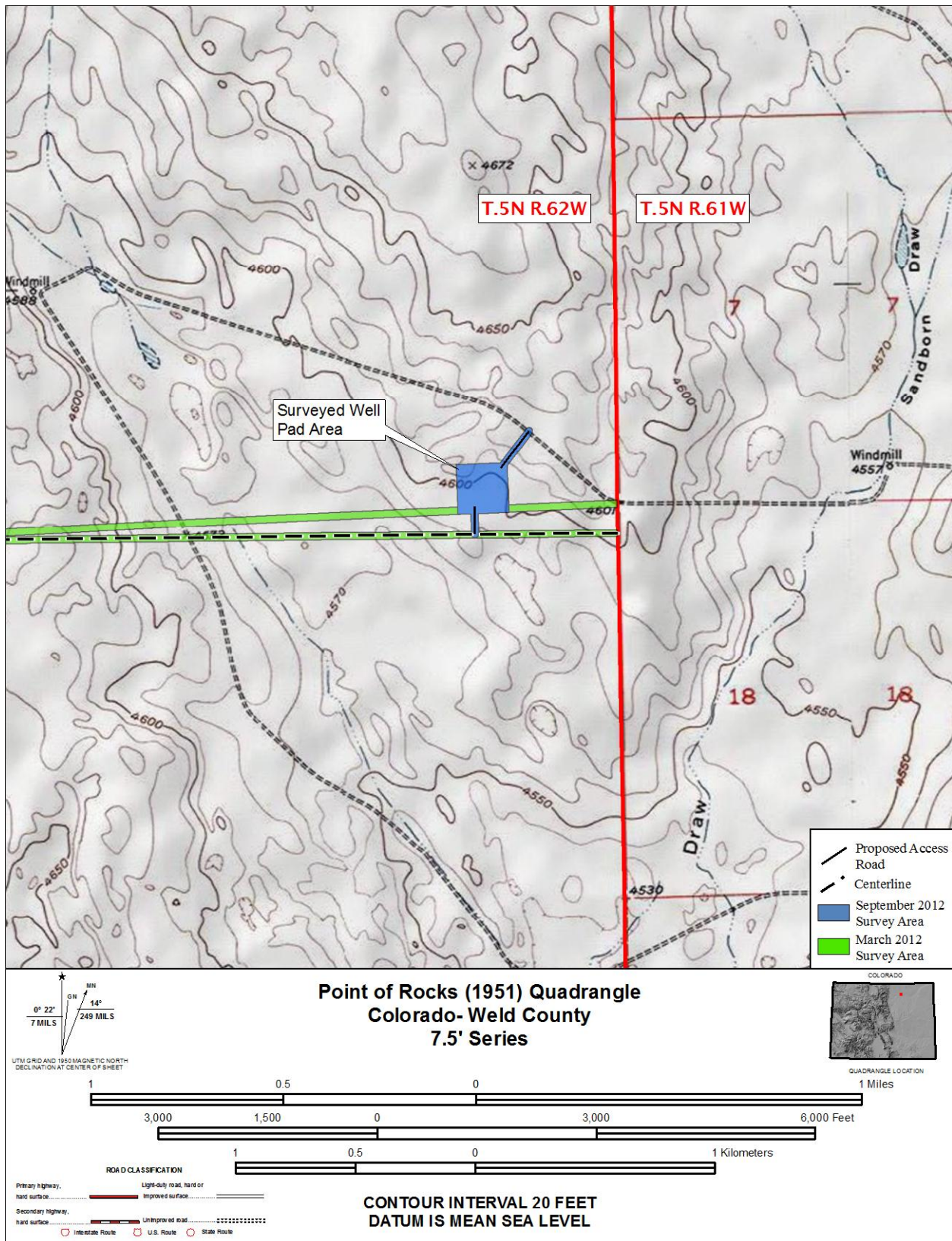
28. Definitions: Site A historic or archaeological site is defined as five or more artifacts or
features over 50 years old.
IF: An Isolated Find (IF) is defined by four or fewer artifacts over 50 years old
29. Describe Survey Method: Well pad: one archaeologist surveyed parallel, pedestrian
back-and-forth transects at 15-m (50 ft) intervals; access roads: up-and-back transects
were surveyed, one to each side of the staked centerline; a 30-m-wide (100 ft) corridor
was surveyed.
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VIII. RESULTS

NOTHING FOUND

30. List IFs if applicable. Indicate IF locations on the map completed for Part III.

31. Using your professional knowledge of the region, why are there none or very limited cultural remains in the project area? Is there subsurface potential? While sites are known to occur in the area, the current survey was small in size (under 14 acres), reducing the likelihood that cultural materials would be found. It is possible that historic wind action, particularly during the 1930s and 1950s, resulted in burial of surface materials. The very deep eolian sand deposits in the area could harbor buried cultural remains, but no such materials were observed in the immediate project area.



Portion of Point of Rocks 7.5' USGS quadrangle showing surveyed Bonanza Creek Energy State Antelope 34-12 1XRL well pad and access road alternatives (blue shading).