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PALEONTOLOGICAL FIELD SURVEY
BONNEVILLE FUELS CORPORATION
FEDERAL #16-24-1N-103W
WELL SITE, PIPELINE, AND ACCESS ROUTE
RIO BLANCO COUNTY, COLORADO

November 8, 1997

Prepared by

Sue Ann Bilbey, Ph.D.
Uinta Paleontological
Associates
446 South 100 West
Vernal, Utah 84078
Colorado BLM Permit
#C-56549

EXHIBIT 10

INTRODUCTION

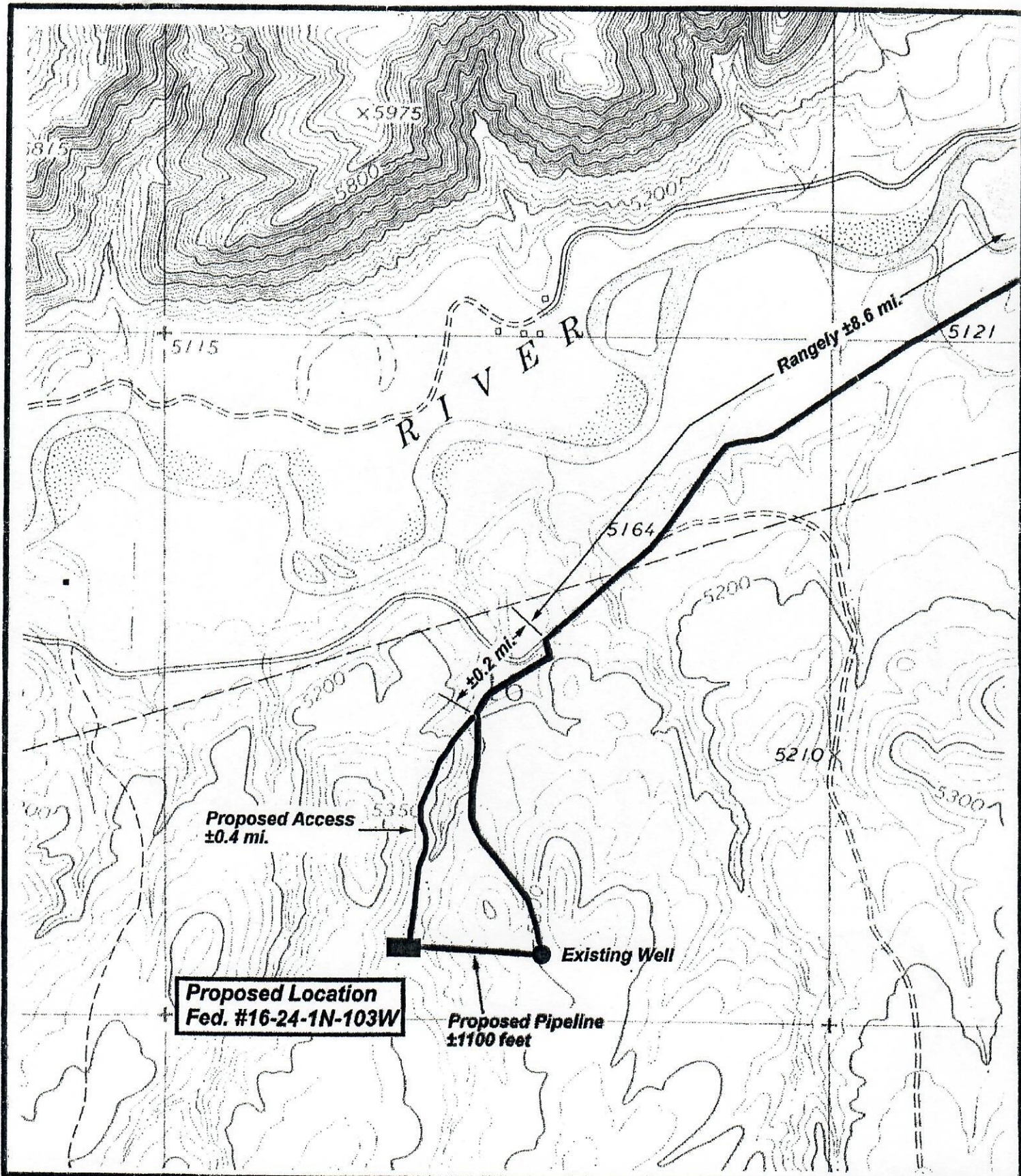
Bonneville Fuels Corporation has proposed constructing an access road, pipeline, and well site - Federal #16-24-1N-103W in Sec 16, T 1 North, R 103 West, Rio Blanco County, Colorado (Figure 1). Bonneville Fuels Corporation through Tri-State Land Surveying, Inc. contracted with Uinta Paleontological Associates to do a paleontological survey of this site. This is in compliance with federal and state laws and mandates.

The United States Department of the Interior Bureau of Land Management (BLM), under the mandates outlined in the following laws and rulings:

- 1) The 1906 Federal Antiquities Act (P.L. 59-209; 34 Stat. 225, 16 U.S.C. 432, 433);
- 2) The Historic Sites Act of 1935 (P.L. 74-292; 49 Stat. 666, 16 U.S.C. 461 et seq.);
- 3) The National Environmental Policy Act of 1969 (NEPA)(P.L. 91-190; 31 Stat.852, 42 U.S.C. 4321-4327);
- 4) The Federal Land Policy and Management Act of 1976 (P.L. 94-579; 90 Stat. 2743, U.S.C. 1701-1782);
- 5) and subsequent BLM rulings and guidelines,

requests reviews of the paleontological sensitivity of all geologic formations to be impacted by well site and access road construction. Similar requirements also are outlined by Colorado state laws regarding paleontological resource protection on public lands, i.e., CRS 1973, 24-80-401 through 409.

The Tertiary Green River Formation is identified as paleontologically sensitive (Appendix A). However, the Garden Gulch Member was classified as a Class II formation, "fossils of scientific significance and occasionally found in the formation within the Craig District." Significant vertebrate fossils have been identified from the Green River Formation in general (see Appendix A - formational faunal list).



BONNEVILLE FUELS CORP.
FEDERAL #16-24-1N-103W
SEC. 16, T1N, R103W, 6th P.M.
TOPO "B"

N
SCALE 1" = 1000'

Tri-State
Land Surveying Inc.
(801) 781-2501
38 WEST 100 NORTH VERNAL, UTAH 84078

RESULTS OF PALEONTOLOGICAL SURVEY

Bonneville Fuels well site Federal #16-24-1N-103W is placed in the SE1/4 of the SW1/4 of Section 16, Township 1 North, Range 103 West in Rio Blanco County. This area has been mapped as the Garden Gulch Member of the Green River Formation with overlying tan unconsolidated sands and silt of Quaternary age. The access road and pipeline right-of-way cut through the Quaternary alluvium and colluvium onto a resistant sandstone ledge of the Garden Gulch Member. Lenticular sandstone beds are exposed at several levels on the hillside near the well site although the site itself is underlain by alluvium on undetermined thickness. The nearby sandstone beds range in thickness from a few cm to more than a meter. These are fluvially deposited sands and are interbedded with lacustrine beds of brownish gray to medium gray shale and claystone. Their dip is approximately 5 degrees to the north which implies that the axis of the Rangely syncline is nearby.

No fossils were found in the Garden Gulch Member of the Green River Formation or the overlying Quaternary alluvium.

Recommendations: Fossils are relatively rare and none were found at this site in the Garden Gulch Member of the Green River Formation. Therefore it is not necessary to do paleontological monitoring. However, if vertebrate fossils are encountered during construction of the pit, construction must stop and the project paleontologist and the BLM should be notified immediately.

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APPENDIX A
FORMATIONAL FAUNAL LISTS

TERTIARY GREEN RIVER FORMATION
Taken from Grande, 1984; MacGinitie, 1969

Occurrences: F - Fossil Lake, G - Lake Gosiute, U - Lake Uinta

Phylum Chordata

Class Pisces

Heliobatis (stingray) - F
Crossophilis (paddle fish) - F
Lepisosteus (gar) - F, G, U
Amia (bowfin) - F, G
Knightia (herring) - F, G, U
Gosiutichthys (herring) - G
Diplomystus (herring) - F, G, U
Eohiodon (Mooneye) - F
Phareodus (osteoglossid) - F, G

Notogoneus (gonorynchid) - F
Amyzon (sucker) - G
Astephus (catfish) - F, G, U
Hypsidoris (catfish) - G
Erismatopterus (trout perch) - F
Amphiplaga (trout perch) - F
Asineops (uncertain) - F, G, U
Mioplosus (perch-like) - F
Priscacara (percoid) - F, G, U
new percoid - F, G?

Class Amphibia

Eopelobates - frog - F, G, U
salamanders

Class Reptilia

Order Chelonia - F, G, U

Trionyx
Echmatemys
Baenid turtle
Chelydridid turtle

Order Squamata

Boavus idelmani - boa - F
Varanidae? lizard - F, G, U
trackways - U

Order Crocodilia

Leidyosuchus - G
Alligator - F, G
numerous partial skeletons, bone,
teeth, and scute fragments as well
as coprolites.

Class Aves:

Order Pelicaniformes

Limnofregata azygosternon

Order Gallinuloididae

Gallinuloides wyomingensis

Order Anseriformes

Prebyornis pervetus

Order Coraciiformes

Primobucco mcgrewi
P. olsoni
Neanis schucherti
N. kistneri

Numerous tracks of birds, mammals, and reptiles.

Green River Formation cont.

Class Mammalia

Order Marsupialia

Peratherium knighti - G

P. innominatum - G, U

Order Insectivora

Talpavus nitidus - G

Nyctitherium sp. - U

N. serotinum - U

Order Carnivora

Vulpavus profectus - G

V. australis - U

Viverravus eucristadens - U

V. minutus - U

Miacus gracillis - U

Sinopa minor - U

Order Condylarthra

Hyopsodus minisculus - G, U

H. vicarius - U

Order Tillodonta

Tellotherium? - U

Order Rodentia

Thisbemys sp. - G

Paramys sp. - U

P. cf P. delicatus - U

Sciuravus sp. - U

S. eucristadens - U

Pseudotomus cf. *P. robustus* - U

Microparamys minutus - U

Sciuravid sp. - U

Pauromys sp. - U

Order Perissodactyla

Hyracotherium - G

Order Chiroptera

Icaronycteris index - F, U

Order Primates

Notharctus sp. - G

N. matthewi - U

Uintasorex parvulus - G, U

Microsyops elegans - G

Washakius insignis - G

Tetoniuss sp. - U

Onomys pucillus - U

O. lloydi - U

Utahia kayi - U

Uintalacus nettingi - U

Lambdotherium - G

Order Artiodactyla

Antiacodon pygmaeus - U

Cynodontomys - G