

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SF079042

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Northeast Blanco Unit
Agreement No. 1, Sec. 929

8. FARM OR LEASE NAME

Northeast Blanco Unit

9. WELL NO.

23A

10. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

F-6-30N-7W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL ☐ GAS ☒ OTHER ☐
WELL WELL

2. NAME OF OPERATOR

Blackwood & Nichols Co., Ltd.

3. ADDRESS OF OPERATOR

P. O. Box 1237, Durango, Colorado 81301

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1800 F/NL - 390' F/WL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6385' GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

Change location footage ☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐

ALTERING CASING ☐

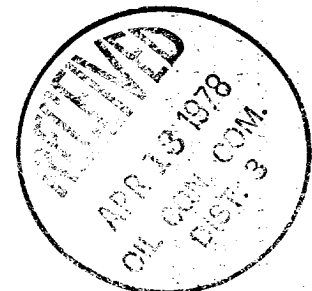
ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

As per attached Archaeological report we were requested to change the drill site location.

Amended location



18. I hereby certify that the foregoing is true and correct

SIGNED *DeLasso Loos* DeLasso Loos

TITLE District Manager

DATE 4-12-78

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

RECEIVED

APR 12 1978

*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.



DIVISION OF CONSERVATION ARCHAEOLOGY

San Juan County
Museum Association

March 30, 1978

Mr. De Lasso Loos
Blackwood and Nichols
Box 1237
Durango, Colorado 81301

Dear Mr. Loos:

Enclosed is our archaeological survey report for four wells in the Navajo Dam area. Well #103 was inspected earlier this spring, but because of snow cover, a complete inspection was not possible. All areas are recommended for archaeological clearance, and final clearance will be granted by the Bureau of Land Management for three wells, and by the Bureau of Reclamation for well #103.

Also enclosed is our invoice for the survey.

Thank you for calling on us to perform the survey, and if there are any questions regarding the report or survey, please contact us.

Sincerely,

DIVISION OF CONSERVATION
ARCHAEOLOGY

Mrs. Nancy S. Hewett
Staff Archaeologist

Enclosures

cc: Mr. Robert Caulkins, BLM
Mr. Jerry Long, USGS, Durango
Mr. Wayne Everitt, Bureau of Reclamation
Mr. Tom Merlan, State Planning Office
Mr. Stewart Peckham, Museum of New Mexico
Mr. Charles McKinney, Dept. of the Interior
Dr. Cynthia Irwin-Williams, Principal Investigator, DCA

Archaeological Survey Report
for
Blackwood and Nichols

Well Locations

Northeast Blanco Unit #23A
Northeast Blanco Unit #66A
Northeast Blanco Unit #66
#103-A

Prepared by
Nancy S. Hewett

Submitted by
Dr. Cynthia Irwin-Williams
Principal Investigator

DIVISION OF CONSERVATION ARCHAEOLOGY

March 30, 1978

Introduction

The Division of Conservation Archaeology of the San Juan County Museum Association recently completed an archaeological survey near Navajo Dam, New Mexico on lands to be impacted by the construction of four gas wells by Blackwood and Nichols, Durango, Colorado.

The survey project was initiated at the request of Mr. O. B. Wittenburg of Blackwood and Nichols on March 20, 1978. It was administered by Mr. De Lasso Loos of Blackwood and Nichols and by Dr. Cynthia Irwin-Williams, Principal Investigator for the DCA.

The field work was conducted by Nancy S. Hewett of the DCA on March 23, 1978 under provisions of Federal Antiquities permit #73-NM-015 which has been issued to Eastern New Mexico University and used by the DCA with written permission. Also present in the field were Mr. Wittenburg, Blackwood and Nichols; Mr. Carl Barrick, USGS; Mr. Jim Hill, Allen Construction Company; Mr. Brantley Dickey, BLM; Mr. Leonard Trujillo, Bureau of Reclamation; and Mr. Bill Trotter, New Mexico State Park Department.

Survey

The requested archaeological survey involved three well pad locations on lands under the jurisdiction of Bureau of Land Management, one well under the jurisdiction of the Bureau of Reclamation. For specific details of location please see the attached topographic maps and the paragraph descriptions below.

The general survey procedure was to walk the area of the proposed construction in a zig zag manner. Visual inspection was made of the ground surface for evidence of any artifactual materials of historic or prehistoric origin. Erosional gullies were checked for accumulations of materials deposited by slope wash. Floral, faunal, and geological observations were made to describe the environment.

Northeast Blanco Unit #23A

Land Jurisdiction: Bureau of Land Management minerals

Legal Description: 1800' F/NL ⁵⁹⁰ 570' F/WL Section 6 T30N R7W N.M.P.M. San Juan County, New Mexico.

Map Source: U.S.G.S. 15' Navajo Dam Quadrangle

Area Surveyed: 300' x 250' (pad) approx. 1200' x 20' (road)

Description: The access road will begin at an existing graded road and run down a moderate slope to the well pad. The well pad will be situated on the fairly level terrain of a ledge overlooking the

Pine River to the east. The vegetation consists of juniper (Juniperus sp.), pinon (Pinus edulis), sagebrush (Artemisia tridentata), snakeweed (Gutierrezia sarothrae), Mormon tea (Ephedra sp.), narrow leaf yucca (Yucca angustissima) and grasses. Throughout the area of the road and well pad there are unfilled pits where soil samples had been taken. Back dirt includes an abundance of cobblestones and gravels. The pipeline is staked to the east of the access road down steeper terrain. There is evidence of grazing, and the soil is a sandy clay loam of varying depths.

Cultural Resources: Approximately 15 meters north of the well stake a fork stick hogan was found. Two of the nine major poles were forked, and the hogan has a diameter of 4M. Associated with the remains is a simple hearth 1 meter east, and a very light scatter (6) of small (less than thumbnail size) ceramic sherds. One pink chert waste flake was also noted near the hogan. In the general area of the well pad there are several burned out juniper tree stumps.

Recommendations: During the survey the well stake was relocated 130' to the west, and the site (DCA-78-33) was flagged for avoidance. Mr. Hill of Allen Construction (the dirt contractor) assured me that he would supervise initial construction of the well pad and the site would not be disturbed. Archaeological clearance is recommended for the road and well pad with the stipulation that the site remain intact.

Northeast Blanco Unit #66A

Land Jurisdiction: Bureau of Land Management minerals

Legal Description: 2100' F/NL 300' F/WL Section 31 T31N R7W N.M.P.M. San Juan County, New Mexico.

Map Source: U.S.G.S. 15' Navajo Dam Quadrangle

Area Surveyed: 300' x 250' (pad) 2500' x 20' (road)

Description: The access road will traverse the north-facing side of a moderately steep slope. The well pad is situated on broken, sloping terrain which has abundant surface cover of cobblestones. The vegetation includes juniper, pinon, sagebrush, narrow and broad leaf yucca (Y. baccata), sparse mountain mahogany (Cercoparpus montanus), antelope bitterbrush (Purshia tridentata), and Mormon tea.

Cultural Resources: No artifacts were noted.

Recommendation: Archaeological clearance is recommended.

Northeast Blanco Unit #66

Land Jurisdiction: Bureau of Land Management minerals

Legal Description: 1990' F/NL 490' F/WL Section 30 T31N R7W N.M.P.M.
San Juan County, New Mexico.

Map Source: U.S.G.S. 15' Navajo Dam Quadrangle

Area Surveyed: 300' x 250' (pad) approx. 5000' x 20' (road)

Description: The access road will run north from an existing graded road across generally rugged, broken terrain west of the Pine River. Several arroyos drain the slopes to the east, and the vegetation includes juniper, pinon, mountain mahogany, Utah serviceberry (Amelanchier utahensis), Mormon tea, Gambel oak (Quercus gambelii), narrow leaf yucca, antelope bitterbrush, and prickly pear cactus (Opuntia sp.). There are a number of sandstone outcrops along the route, and the well is situated on the south side of a tributary canyon of the Pine River. Deer are in the area, and the soil is a sandy clay loam.

Cultural Resources: Along the route of the access road, 2 isolated Gobernador Polychrome sherds were found. One obsidian waste flake was also noted near the access road. Because these artifacts occur in isolation and in an area of heavy erosional activity, it is felt that no significant cultural resources will be affected by the construction.

Recommendations: Archaeological clearance is recommended.

#103-A

Land Jurisdiction: Bureau of Reclamation

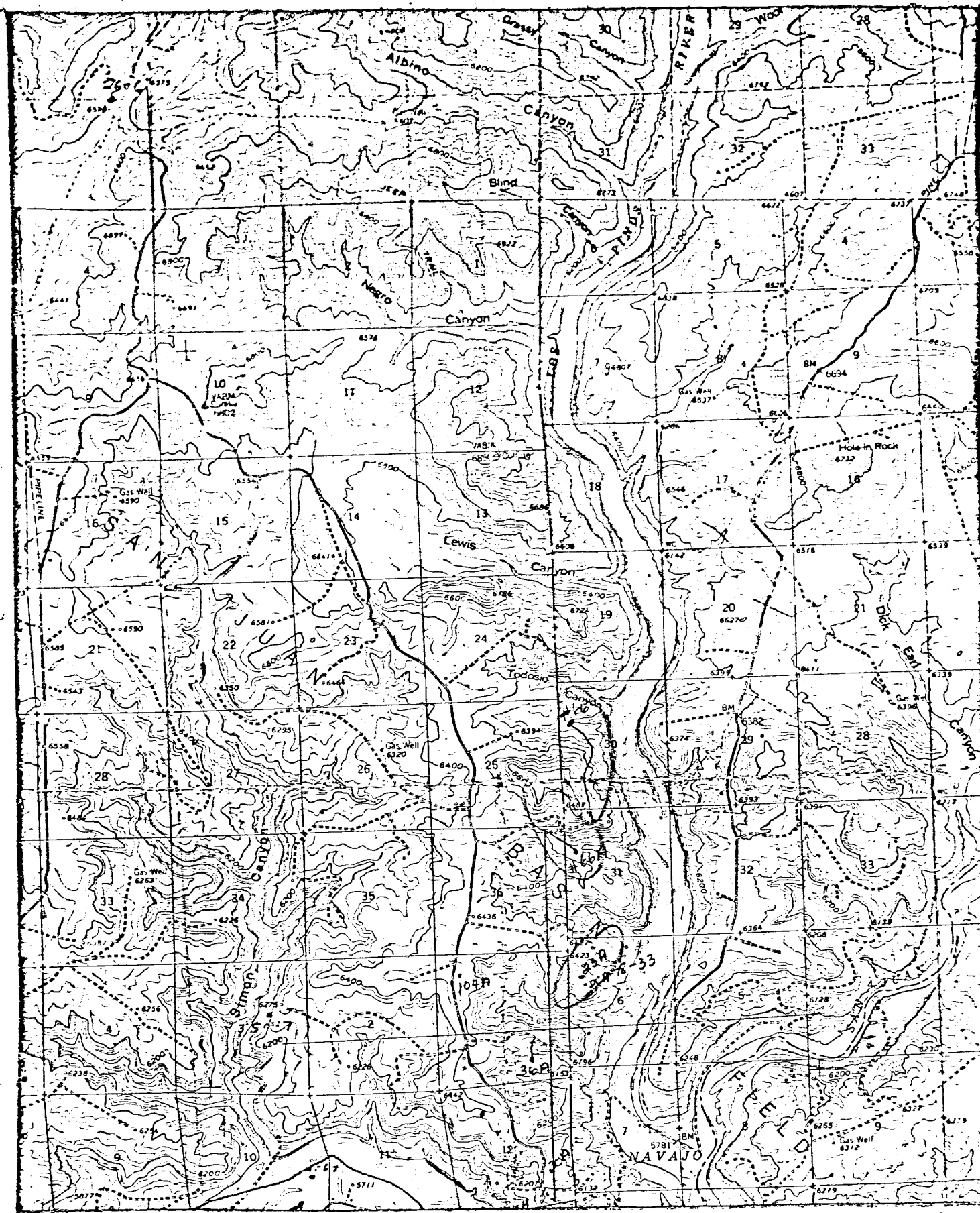
Legal Description: 1700' F/NL 790' F/WL Section 24 T30N R3W N.M.P.M.
San Juan County, New Mexico.

Map Source: U.S.G.S. 15' Navajo Dam Quadrangle

Description: This well location and access road were previously surveyed on March 1, 1978 and reported on in a DCA report dated March 2, 1978. At that time cultural resources were noted but because of snow cover, a full search of the area was not possible. The area of stained soil associated with ceramic sherds was relocated next to an erosional gully. The surrounding area to the south and west was searched for further evidence of cultural activity. A partial projectile point was found in an erosional gully 20 meters east of the stained area, and in gullies south and west pieces of chert were noted. The highest terrain was searched for a possible source of the various artifacts, and no further evidence of features or dwellings was found. It appears that the prehistoric use of

the area was limited to transitory camps or hunting work stations. All artifacts noted have been displaced by erosional forces, and the stained earth area may be natural.

Recommendation: It is felt that no significant cultural resources will be affected by the construction of the road and well pad, and archaeological clearance is recommended.



Navajo Dam

Blackwood and
Nichols Survey

MUSEUM OF NEW MEXICO ARCHAEOLOGICAL SURVEY Project SITE NO.: L.A. _____

Site name _____ Quad no. _____ : Field No. DCA-78-33
foot XX sedan _____
Map source USGS Navajo Dam Quadrangle Accessibility: 4-wh. dr. _____ backhoe _____
NW of the SE of the NW of the Sec. 6, T. 30 N. SE R. 7 W., County San Juan State New Mexico
Location approx. 3 miles north of Navajo Dam, turn right on major graded road.
follow road to new road to well #23A. Elevation 6280'
Stake location (MNM, Other) Gas well #23A 180' west of site
Site is in what nearest named drainage? Pine River Nearest town Aztec, NM Nearest highway 511
Ownership State of New Mexico Informant -

FEATURES (indicate number): Pit houses _____ Kivas _____ Surface rooms: Slab/Jacal _____ Masonry _____ Adobe _____ Other fork stick hogan
Refuse area (direction) 1 Hearths _____ Burials _____ Sherd/Chipping area _____ Grids/Dams/Terraces/Borders _____ Petroglyphs/Pictographs _____
Trails/Steps/Toeholds _____ Other _____
PLAN (check ☒): 1-room _____ Arc _____ Linear _____ L-shaped _____ C-shaped _____ F-shaped _____ E-shaped _____ circular
Enclosed plaza: by a wall _____ by rooms _____ Scattered dwelling units _____ Indeterminate _____ Other _____
Single-tier _____ Double-tier _____ ()-tiers _____ Part double-tier _____ Part ()-tiers _____ Orientation _____ Exposure _____
Modern structures on site Gas well 180' west of site

Nature and depth of fill Colluvium, shallow depth Area of site 5 x 5 meters/feet
Condition: Undisturbed _____ Eroded ☒ Pot-hunted _____ Pottery/Artifact abundance: 0, 10's, 100's, 1000's _____ Multiple component site? NO
SITUATION (check ☒): Valley bottom _____ Bench/Terrace ☒ Slope _____ Ridge _____ Mesa top _____ Cliff edge _____ Overhang _____ Cave _____
Dune _____ Other _____
Terrain: Level ☒ Broken _____ Slopes to (direction) N Surface deposits: Alluvium _____ Colluvium ☒ Aeolian _____ Talus _____ Residual _____
Soil: Rocky _____ Gravelly ☒ Sandy ☒ Clayey _____ Other _____ Local outcrops: Sandstone ☒ Shale _____ Limestone _____
Basalt _____ Tuff _____ Caliche _____ Other cobbles Arable land (type, distance & direction) floodplain of Pine and San Juan before dam construction
Water (distance & direction): River Pine Arroyo _____ Stream confluence _____
Spring/Seep _____ Bedrock pool _____ Local vegetation patterns juniper, pinon, mountain mahogany, Mormon tea, broad leaf yuca, prickly pear

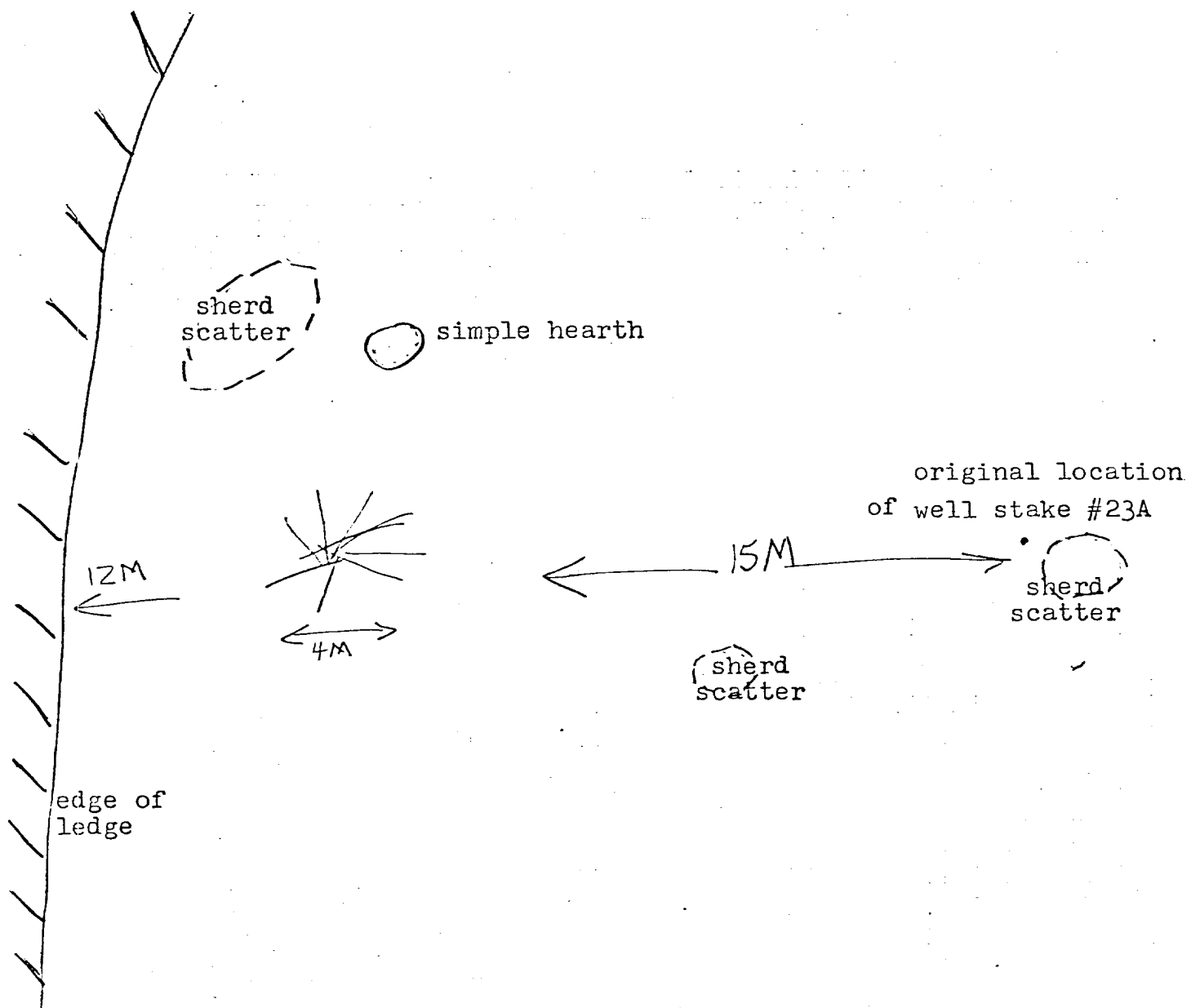
Field remarks Site consists of one collapsed fork stick hogan, 4M diameter, and approx 6-8 small sherds, one simple hearth, and one lithic waste flake. Site is situated on north edge of broad ledge area above Pine River. Confluence of Pine and San Juan can be seen to the southeast. Hogan has collapsed in place, and there appears to be no disturbance. sherds are prob. Dinetah Utility. No painted.
Impact: Type _____ Direct _____ Indirect _____

Mitigation? Avoid ☒ Monitor _____ Test _____ Excavate _____ Not Required _____
Statement of Eligibility _____ Nat'l Register Nomination _____ Date _____

CULTURE Navajo / _____ Phase or Date Dinetah/Gobernador
(component 1) (component 2) (component 1) (component 2)
Zone _____ Locality _____ Photo: B/W NO Color _____
Lab remarks _____

UTM REFERENCE
13 / 266490 / 4080510
zone easting northing
/ / /
zone easting northing

Field recorder Nancy Hewett Date 3-20-78 Survey cabinet _____ Drawer _____
Lab recorder _____ Date _____ collections: Bulk cabinet _____ Drawer _____
4-8-76 storage



DCA-78-33