

(November 1983)

DEPARTMENT OF THE INTERIOR

(formerly 9-330)

BUREAU OF LAND MANAGEMENT

5. Lease Designation & Serial #: SE-079060

6. If Indian, Allottee/Tribe Name

7. Unit Agreement Name:
Northeast Blanco Unit8. Farm or Lease Name:
Northeast Blanco Unit9. Well No.:
413R10. Field and Pool, or Wildcat:
Basin Fruitland Coal11. Sec., T., M., or Block and
Survey or Area:
Sec. 20, T30N, R7W12. County or Parish: Rio Arriba
13. State: NM

WELL COMPLETION OR RECOMPLETION AND LOG *

1a. Type of Well: oil well ___ gas well X dry ___ other BLM
b. Type of Completion: new well X work over ___ deepen ___
plug back ___ diff. resvr. ___ other BLM

2. Name of Operator: Blackwood & Nichols Co., A Limited Partnership

3. Address of Operator: P.O. Box 1237, Durango, Colorado 81302-1237

4. Location of Well: (Report location clearly, in accordance with any State requirements)*

At surface

At top prod. interval reported below

350' FNL, 460' FEL

At total depth

Permit No.: 30-039-24946

15. Date Spudded: 10-1-90 16. Date TD Reached: 12-7-90 17. Date Compl. (ready to produce): 12-18-90 18. Elev. (DF, RKB, RT, GR, Etc)*: 6312' RKB 19. Elev. Csgd.: 6298' UG

20. Total Depth, MD & TVD: 3213' 21. Plug Back TD, MD & TVD: 3213' 22. If Mult. Comp.: How Many* N/A 23. Intervals Drilled By: Rotary Tools TD Cable Tools No

24. Producing Interval(s), of this completion - Top, Bottom, Name (MD and TVD)*:
Fruitland Basin Coals, open hole completion from 2920' to 3213'25. Was Directional Survey Made?
Yes

26. Type Electric and Other Logs Run:

Mud Log

27. Was Well Cored?
No

28. CASING RECORD (Report all strings set in well)

Casing Size	Weight, LB/FT	Depth Set (MD)	Hole Size	Cementing Record	Amount Pulled
9.625"	36# K-55	313'	12.25"	295 cf of Class B	7 Bbls Circ. Cement
7.000"	23# N-80	2920'	8.75"	810 cf Howco Lite	
				148 cf Class B	15 Bbls Circ. Cement

LINER RECORD

TUBING RECORD

Size	Top (MD)	Bottom (MD)	Sacks Cmt*	Screen (MD)	Size	Depth Set (MD)	Packer Set (MD)
5.500"	2837'	3212'	None	N/A	2.875"	3160'	N/A

31. Perforation Record (Interval, size and number):

5.5" Uncemented Pre-perfed Liner - Open Hole 2920'-3213'
2927-2967'; 2986-3045'; 3084-3202'
(8 HPF, 0.625)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval (MD)	Amount and Kind of Material Used
2920' - 3213'	Natural, stress relieved the coal zones.

33. PRODUCTION

Date First Production: Waiting on pipeline Production Method (Flowing, gas lift, pumping-size and type of pump): Flowing during completion operation, light mist gauge Well Status (shut-in): Shut-in

Date of Test: 12-18-90 Hours Tested: 1 hr. Choke Size: 2" pitot Prod'n For Test Period: Oil-Bbl N/A Gas-MCF N/A Water-Bbl N/A Gas-Oil Ratio N/A

Flow. Tubing Press: 1250 psig Casing Pressure: 1245 psig Calculated 24 HR Rate: Oil-Bbl N/A Gas-MCF 10,813 MCF Water-Bbl 400 Bbl Oil Gravity-API N/A

34. Disposition of Gas (Sold, used for fuel, vented, etc):

Vented

Test Witnessed By:
FEB 01 1991 Baxter

35. List of Attachments:

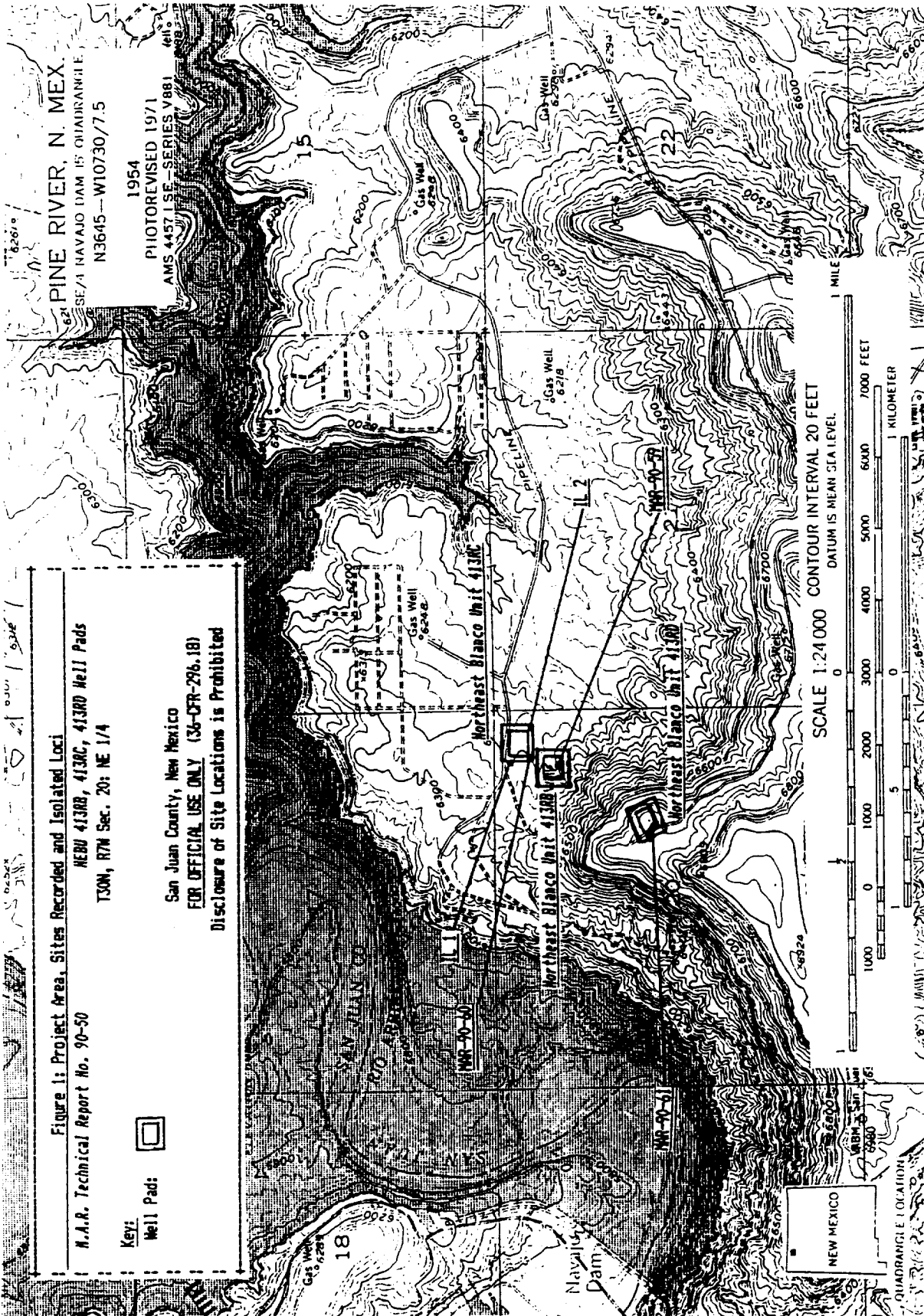
FARMINGTON RESOURCE AREA

36. I hereby certify that the foregoing and attached information in complete and correct as determined from all available records

Signed: Roy W. Williams Title: Administrative Manager Date: 1/31/91

(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency or the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



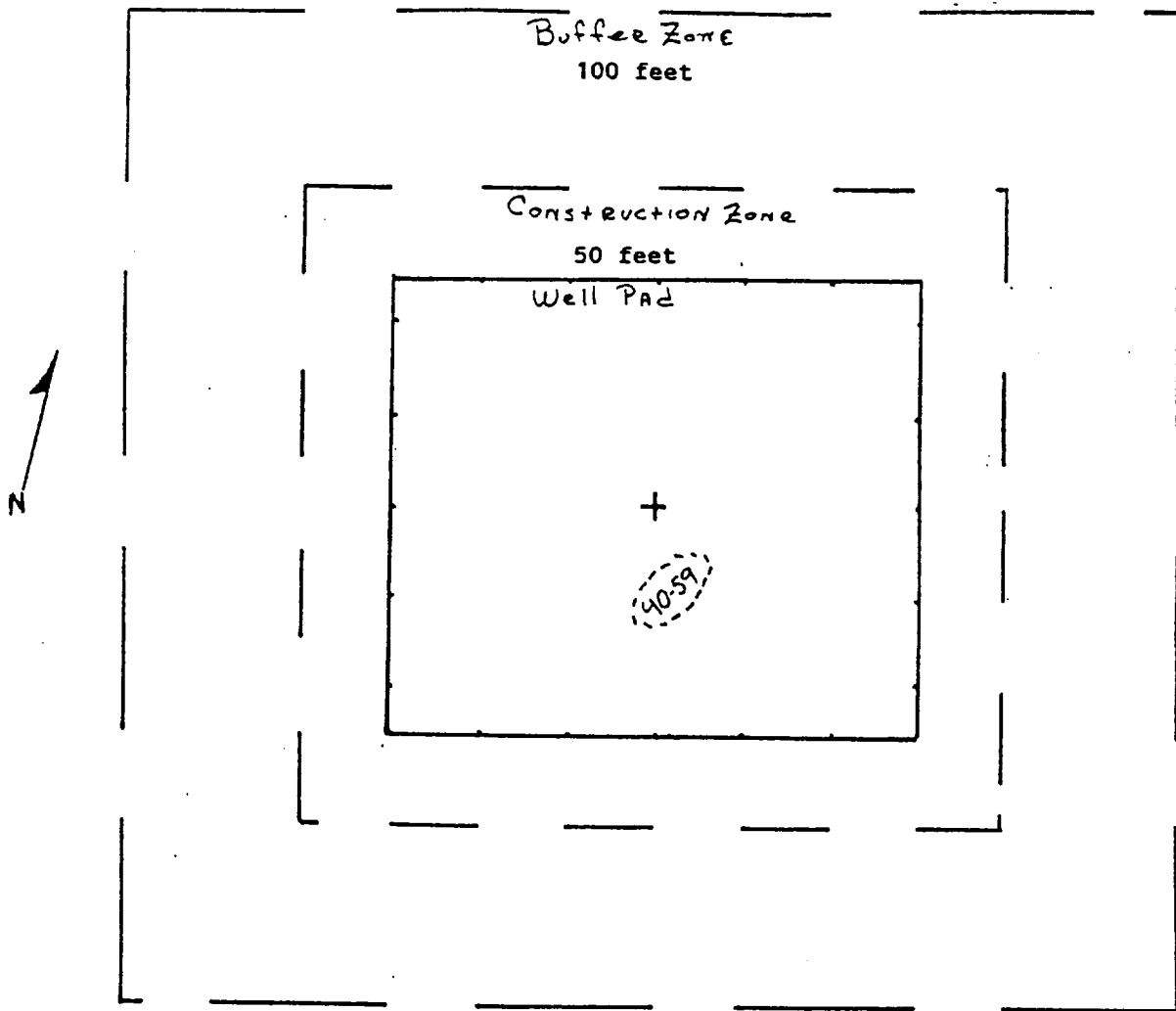



Figure 2

Site Map
M.A.R. 90-59
6-6-90
H13R Alt. B



[] = 2 meter

 = Deadfall

 = Large Boulder

 = DARK STAIN

 = JUNIPER TREE

 = Small Rock



*Note: Center Stone is 15m. North of Dark Stain Area

Figure 3

PROJECT AREA

Proposed Well NEBU 413 RC

Legal Description: T. 30N, R. 7W, Section 20, NE 1/4 NE 1/4 NE 1/4
Section 20, 350' F/NL, 460' F/EL

U.T.M.: Zone 13, 476100 N, 269250 E (center stake)

New Mexico Prime Meridian, San Juan County, New Mexico, 6298' Elevation

Map Source: U.S.G.S. 7.5' Pine River, New Mexico 1954 (Photorevised 1971)

Land Jurisdiction: State Trust Lands (minerals), Private Elks Lodge (surface)

Project Area: 300' x 250' (well pad), 400' x 350' (well pad w/construction)

Surveyed Area: 600' x 550' (well pad w/construction and buffer zones)

Acres : 7.576

Environment: The project area is located on Smith Mesa on the south side of the De Lasso Loos Road, south of the Navajo Reservoir (Figure 1). The area slopes gently upslope to the south, with small drainages running west to east. There are sandstone and gravel outcrops across the south edge of the pad area, and a powerline runs over the south construction zone. The south buffer zone has more sandstone outcrops, gravel areas, and the drainages are deeper. The sandy loam soil shows depth of up to 40cm in the drainages. The De Lasso Loos road is in the north construction zone and an open pipeline trench is in the north buffer zone. The pad area has a 40% scrubland cover consisting of sagebrush, broad leaf yucca, needle and thread, galleta and indian rice grasses; club cholla, barrel cactus, and a few pinyon and juniper trees. The east, west, and south buffer zones have a 10-15% woodland cover consisting of pinyon, juniper, grasses, forbs, Mormon Tea, yucca, prickly pear cactus and sagebrush. Signs of deer, rabbits and cattle were seen. The weather at the time of the survey was hot and clear. Current use is for energy development and recreation.

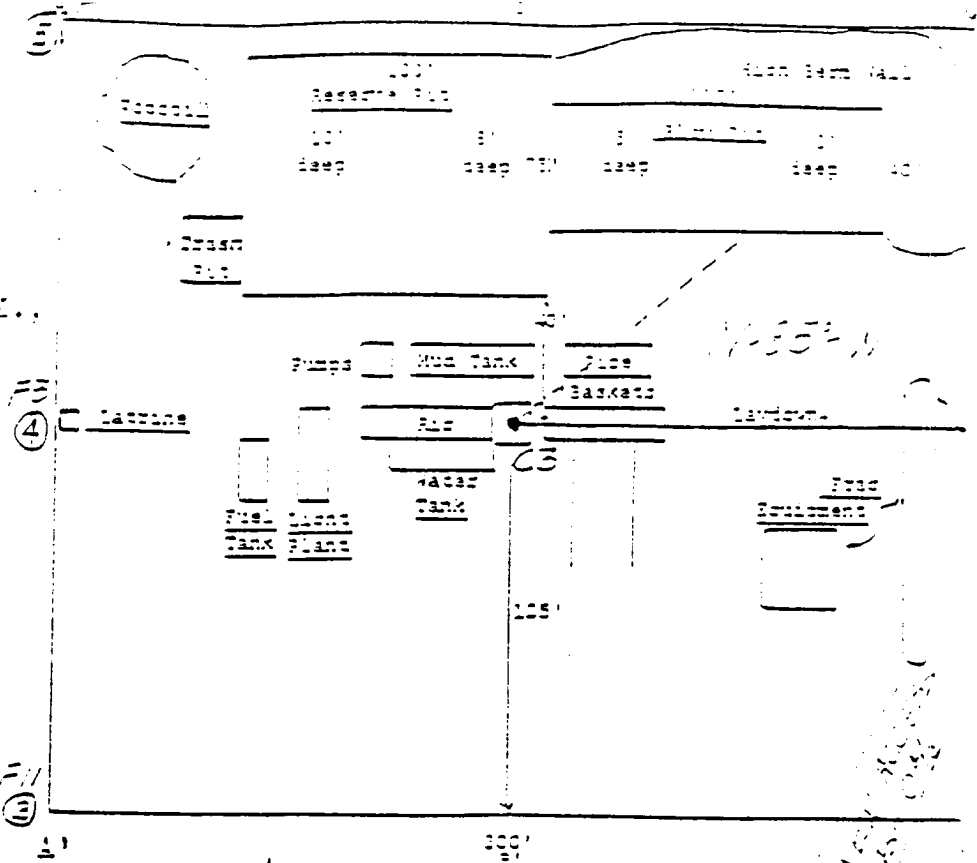
Project Description: This is the third alternate location for the NEBU 413R (Figure 4). This was a Class III survey. This area is north of the NEBU 413RB location.

Cultural Resources: One archaeological site and two isolated loci (IL) were found during the survey. The IL's are described in Table 1. The site (figures 1 and 5) is a Navajo Gobernador Phase site located on the outside edge of the construction zone nearest the southwest corner of the proposed pad.

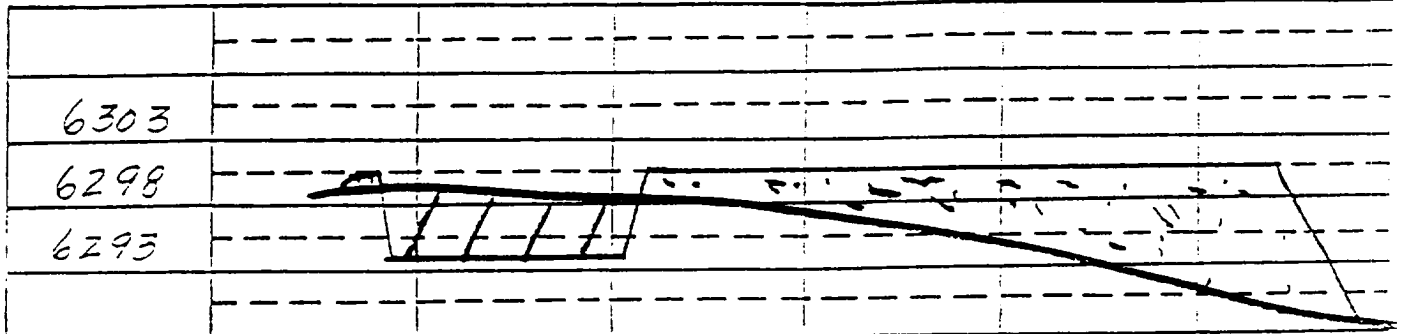
Blackwood & Nichols
Co., Ltd.

Northeast Blanco Unit
#413 B

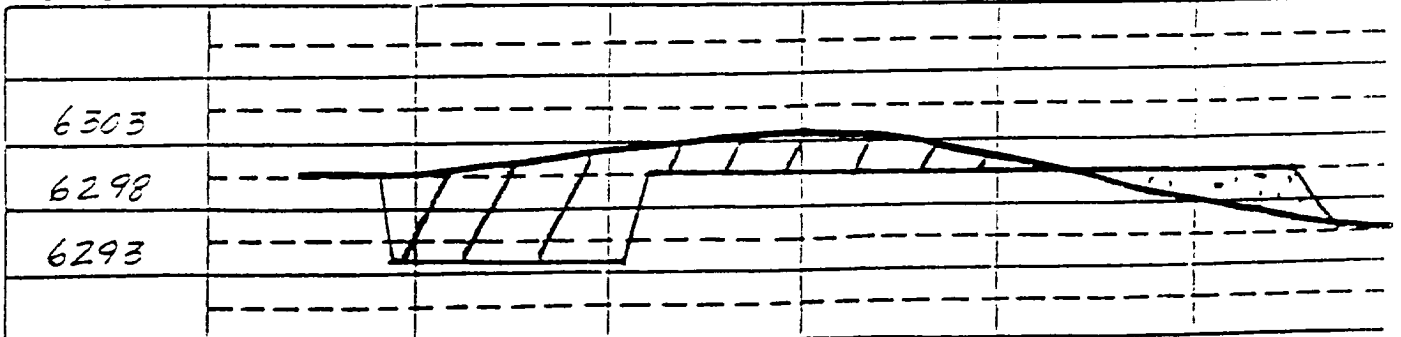
250' FWL, 460' FSL,
Sec. 20, T30N, R7W, NDEK.,
Rio Arriba Co., N.M.



A - A' Vert. 1" = 10' Horiz. 1" = 50' C/L



B - B' C/L



C - C' C/L

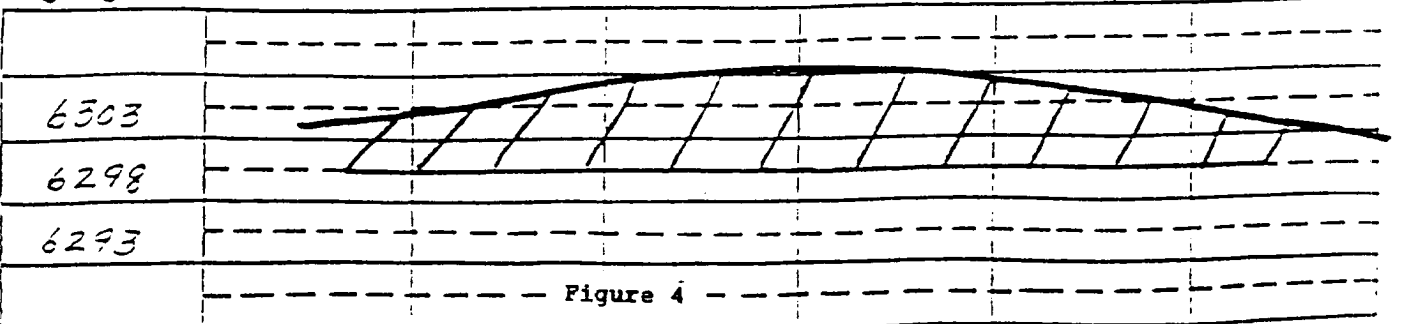


Figure 4

IL1

Buffer Zone

100 feet

Construction Zone

50 feet

Well Pad

+

Stake

6

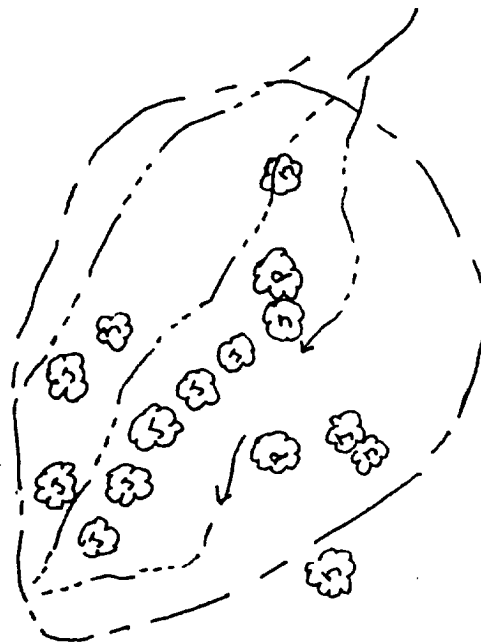
MAR
90

IL2

Figure 5

Site Map M.A.R. 90-60
413 C
6-12-90

[= 5 meters
○ = Site Boundary



●
Stake
6



Figure 6

TABLE 1: Isolated Loci Descriptions

IL U.T.M. Zone 13			
<u>No.</u>	<u>Northing</u>	<u>Easting</u>	<u>Description</u>
1	4076140	269165	One gray siltstone tertiary core reduction flake 60mm long, 32mm wide, 25mm thick.
2	4076040	269310	Four pieces of fire-cracked rock; one gray fossiliferous chert (with red & white inclusions) scraper made by retouch of the right lateral margin of a tertiary core reduction flake 68mm long, 37mm wide, 20mm thick.

 Key: Both IL's have the following information in common:
 T.30N, R.7W, Sec. 20, NE 1/4 NE 1/4 NE 1/4; N.M.P.M.; Rio Arriba County;
 U.S.G.S. 7.5' Pine River, New Mexico 1954 (Photorevised 1971) map;
 Woodland; on a wide bench of Smith Mesa.

Recommendations: The site is in the southwest corner of the project area on the edge of the construction zone, 18 meters (approximately 54') from stake 6. Archaeological clearances is recommended with the stipulation that construction be monitored and that no construction zone be used for 50' either side of stake 6 (southwest corner stake).

PROJECT AREA

Proposed well NEBU 413RD

Legal Description: T. 30N, R. 7W, Section 20, SE 1/4 SW 1/4 NE 1/4
 Section 20, 1600' F/EL, 2250' F/NL

U.T.M.: Zone 13, 475530 N, 268890 E (center stake)

New Mexico Prime Meridian, San Juan County, New Mexico, 6740' Elevation

Map Source: U.S.G.S. 7.5' Pine River, New Mexico 1954 (Photorevised 1971)

Land Jurisdiction: Bureau of Land Management, Farmington Resource Area

Project Area: 500' x 500'

Surveyed Area: 500' x 500' (Class II reconnaissance)

Acres: 5.739

Environment: The project area is located on the first bench down from Smith Mesa (Figure 1). The area is a level mesa bench, with numerous shallow drainages. There is a 10-15% woodland cover consisting of very old juniper and pinyons, both with stabilized areas of soil and pine duff; Mormon Tea, broad leaf yucca, prickly pear cactus, and minimal grasses and sagebrush. The soils are a sandy loam, with minimal shale and sandstone outcrops. The area shows use by deer and rabbits. The weather at the time of the survey warm and partly cloudy.

Project Description: This was a Class II reconnaissance survey of an alternate location of the NEBU 413R on a bench directly above the original location (see project description for 413R-B). No plat is available for this location.

Cultural Resources: One archaeological site was found in the proposed area. Site MAR-90-61 is a Navajo Gobernador Phase site (Figure 0) located in the southwest pad and buffer zone area (pad never staked).

Recommendations: Archaeological clearance is not recommended.

REFERENCES

Moore, Susan K.

- 1990 An Archaeological Survey of Well NEBU 413R south of Navajo Reservoir. Moore Anthropological Research, Technical Report No. 90-30A.

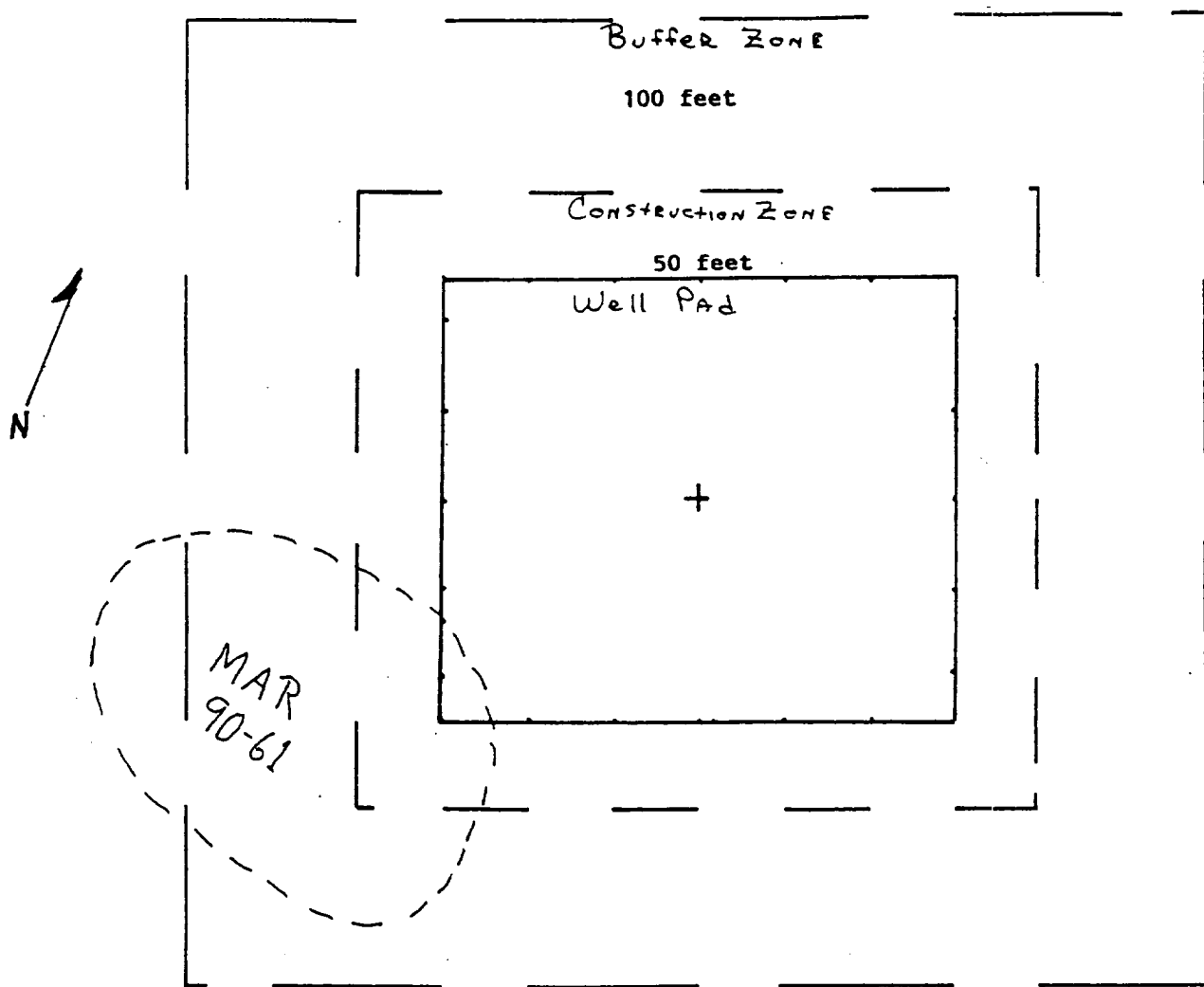


Figure 7

Site Map 90-61
MAR 6-12-90
413RD

[= 5 meter

○ = Site Boundary

● = Power Pole and Line

☼ = Pinyon and Juniper Trees

/// = Collapsed Hogan

||||| = Road

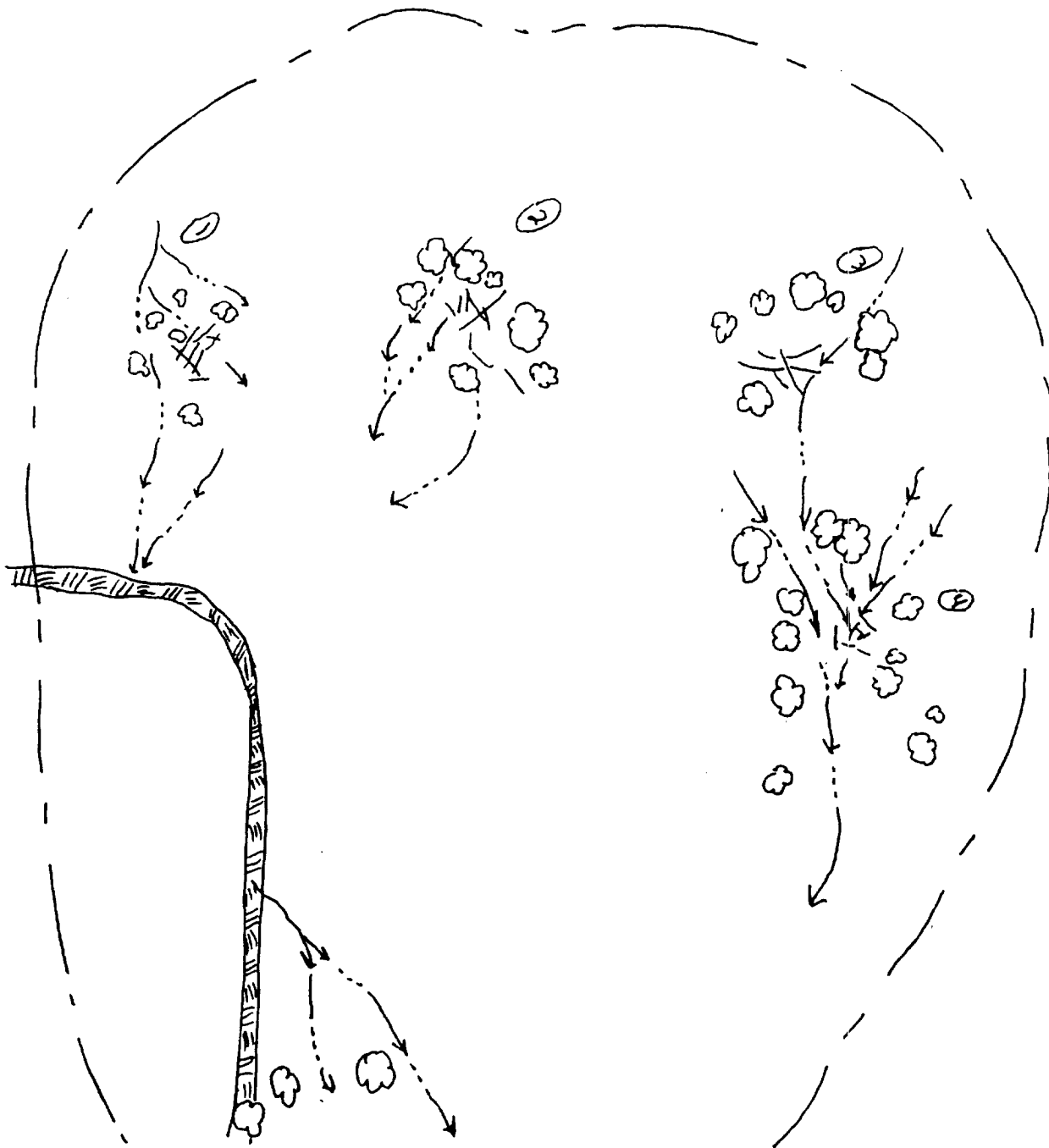


Figure 8