

EXHIBIT 'J': Archaeology Report V4

TITLE PAGE/ABSTRACT/NEGATIVE SITE REPORT CARLSBAD FIELD OFFICE

BLM/ RDO 1/95

1. BLM Report No.	2. (ACCEPTED) (REJECTED)	3. NMCRIS No.: 71086
4. Title of Report (Project Title): Class III archaeological survey of Bonneville Fuels Corporation's proposed pad for the Avalon "1" Federal well No. 4 in Section 1 (Irregular Shaped Section), T21S, R26E, NMPM, EDDY County, New Mexico.		5. Project Date(s): 6-15-00
		6. Report Date: 7-03-00
7. Consultant Name & Address: Direct Charge: David Wilcox (P.I.) Name: Desert West Archaeological Services Address: P.O. Box 645, Carlsbad, NM 88220 Authors Name: Danny Boone Field personnel names: Danny Boone Phone (505) 887-7646		Permit No.: BLM: 123-2920-99-U STATE: NM-99-077
		9. Consultant Report No. DWAS 00-60 JN
10. Sponsor Name and Address: Bonneville Fuels Corporation Indiv. Responsible: Name: R.A. (Bob) Schwering Address: 1600 Lincoln, Suite 1800 Denver, Co. 80264 Phone (303) 863-1555 Ext. 215		11. For BLM Use only.
		12 ACREAGE: Total No. of acres surveyed: 1.95 Per Surface Ownership: Federal: 1.95 State: 0 Private: 0
13. Location: (Maps Attached if negative survey) Figure 1. a. State: New Mexico b. County: Eddy c. BLM: Carlsbad Field Office d. Nearest City or Town: Carlsbad, New Mexico Location: T17S, R26E, Sec. 1 (Irregular Shaped Section), From the SE ¼; SW SW NE, NE NW SE; Well Pad Footages: 2553' FSL, 1643' FEL f. 7.5' Map Name(s) and Code Number(s): ANGEL DRAW, NM (Prov. Ed. 1985) 32104-E2 g. Area: Block; Impact: Within 400' x 400' Surveyed: 400' x 300' (+/- see 14 b) Linear: Impact: NA Surveyed: NA		

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14. a. Records Search:

Location: BLM on 6-15-00 and ARMS on 6-21-00 by Danny Boone

List by LA # all sites within .25 miles of the project: None

(Those sites within 500' are to shown on the project map)

b. Description of Undertaking:

The proposed project is a well pad for an oil well. The proposed pad is rotated 45 degrees from north and overlaps another large pad (BLM No. 98-807) along the southwest portion. Access will be from the existing pad. There is also an existing pipeline across the southwestern boundary. As this is an irregular shaped section all footages and locations are from the southeast corner.

c. Environmental Setting (NRCS soil designation; vegetative community; etc.):

This project is situated mostly on a small rocky hill with an ephemeral in the eastern portion. In the western portion the hill is more pronounced.

Vegetation: Creosote, mesquite, broom snakeweed, various grasses and other flora

NRCS: Simona-Pajarito association: Sandy, deep soils and soils that are shallow to caliche; from wind-worked deposits

d. Field Methods:

Transect Intervals: Straight line and zig zag spaced 15 meters or less

Crew Size: One

Time in Field: 4 Hours

Collections: NA

15. Cultural Resource Findings: Three isolated manifestations (IM) were encountered and recorded during this survey.

a. Identification and description: (Location shown on Project map)

T21S, R26E, Sec. 1, From the southeast 1/4;

IM No. 1, NE SE SW NE; consists of one decortification flake, whole, quartzite, 90% cortex, platform remnant, successful termination, 30 x 28 x 7 mm.

IM No. 2, SE SE SW NE; consists of one decortification flake, whole, quartzite, 98% cortex, platform remnant, successful termination, 45 x 31 x 8 mm.

IM No. 3, SW SE SW NE; consists of a triangular shaped monument, cement, approximately 15 inches on each side, 3-4 inches thick, an embossed circle in the center of the triangle 3 inches in diameter with a steel rod 1/16 inch thick protruding upward from the center of the circle.

16. Management Summary (Recommendations):

Archaeological clearance for Bonneville Fuels Corporation's proposed pad for the Avalon "1" Federal well No. 4 in Section 1 (Irregular Shaped Section), T21S, R26E, NMPM, EDDY County, New Mexico as presently marked is recommended.

I certify that the information provided above is correct and accurate to the best of my knowledge and meets all appreciable BLM standards.

Responsible Archaeologist

Signature

Date

Danny Boone 7-3-00

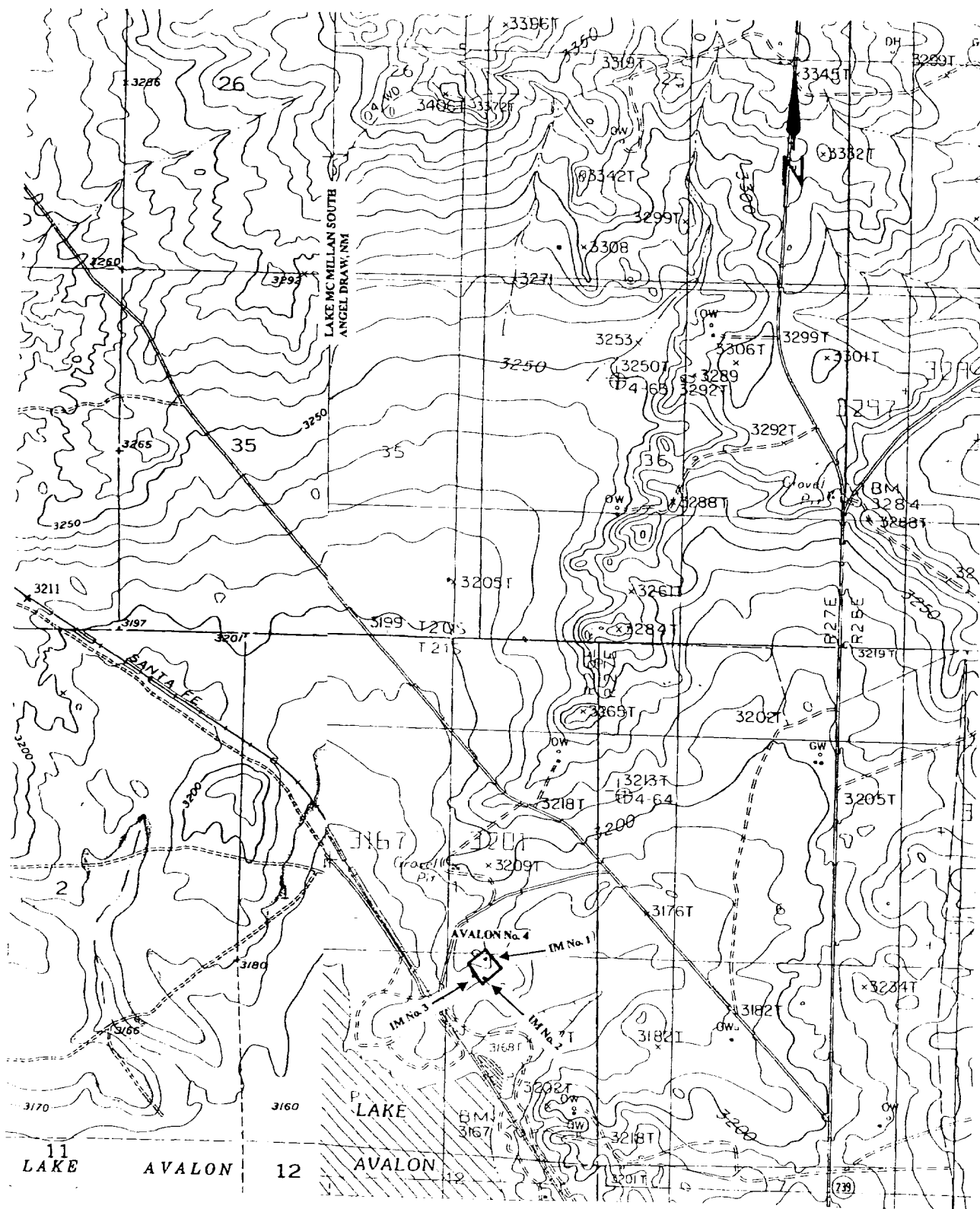


Figure 1. Showing the location of Bonneville Fuels Corporation's proposed pad for the Avalon "1" Federal well No. 4 in Section 1, T21S, R26E, NMPM, EDDY County, New Mexico.
Map Reference: USGS 7.5' Series; ANGEL DRAW, NM (Prov. Ed. 1985) 32104-E2

DISTRICT I
P.O. Box 1080, Hobbs, NM 88241-1080

State of New Mexico

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Form C-102

DISTRICT II
P.O. Drawer 80, Artesia, NM 88211-0710

Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1040 Rio Brazos Rd., Artec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV
P.O. Box 2088, SANTA FE, N.M. 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name <i>Burton Flat Morrow</i>
Property Code	Property Name AVALON 1 FEDERAL	Well Number 4
OCRID No. <i>002678</i>	Operator Name BONNEVILLE FUELS CORPORATION	Elevation 3193

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 31	1	21 S	26 E		2853	SOUTH	1643	EAST	EDDY

Bottom Hole Location If Different From Surface

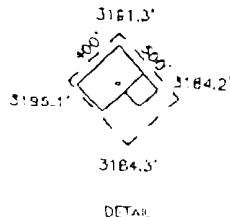
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 38	1	21 S	26 E		1320	SOUTH	2310	WEST	EDDY

Dedicated Acres <i>163.20 *</i>	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

20	19	18	17
29.49 AC.	29.85 AC.	30.28 AC.	30.85 AC.
21	22	23	24
38.99 AC.	39.39 AC.	39.93 AC.	40.29 AC.
28	27	26	25
39.01 AC.	39.41 AC.	40.06 AC.	40.42 AC.
29	30	31	32
39.02 AC.	39.42 AC.	40.19 AC.	40.56 AC.
36	35	34	33
40.59 AC.	40.66 AC.	41.07 AC.	41.14 AC.
37	38	39	40
40.94 AC.	41.01 AC.	41.19 AC.	41.26 AC.

SEE DETAIL
SURFACE
BOTTOM HOLE
1320'



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
R. A. Schweitzer
Printed Name
Robert A. Schweitzer, P.E.
Title
Operations Manager
Date
6/24/2000

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

Date Surveyed
JUNE 15, 2000
Signature & Seal of Professional Surveyor
Ronald J. Eason
Certificate No. RONALD J. EASON 3230
GARY EIDSON 12641
WACON McDONALD 12165