

DATE IN 7/19/99	SUSPENSE 8/9/99	ENGINEER MS	LOGGED MV	TYPE NSL
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

### ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

#### Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]  
 [DD-Directional Drilling] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

#### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

X\_NSL \_NSP \_DD \_SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

\_DHC \_CTB \_PLC \_PC \_OLS \_OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

\_WFX \_PMX \_SWD \_IPI \_EOR \_PPR

JUL 19 1999

#### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or \_ Does Not Apply

[A] \_ Working, Royalty or Overriding Royalty Interest Owners

[B] X\_ Offset Operators, Leaseholders or Surface Owner

[C] \_ Application is One Which Requires Published Legal Notice

[D] \_ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] \_ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] \_ Waivers are Attached

#### [3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

J W Hawkins

*J W Hawkins*

Regulatory Affairs Engineer

7/14/99

**Amoco Production Company**

BP Amoco  
Western Gas Business Unit  
Post Office Box 3092  
Houston, TX 77253-3092

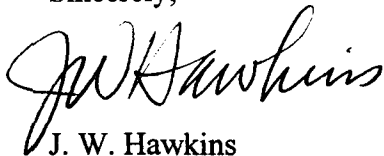
July 14, 1999

Ms. Lori Wrotenbery, Director  
New Mexico Oil Conservation Division  
2040 S. Pacheco Street  
P.O. Box 6429  
Santa Fe, NM 87505

**Application for Unorthodox Location**  
**Atlantic B LS #5B Well**  
**N/2 Section 5-T30N-R10W**  
**Blanco Mesaverde Pool**  
**San Juan County, New Mexico**

Amoco Production Company hereby requests administrative approval for an unorthodox location for the Atlantic B LS #5B well. The well will be drilled at a location of 2090' FNL and 1580' FWL of Section 5, T30N-R10W. The unorthodox location is required due to archeological concerns. To aid in your review attached is a C-102 Well location plat showing the well location and a 9 section plat showing the offset wells and operators. The affected offset operators will receive a copy of this application by certified mail return receipt requested.

Sincerely,



J. W. Hawkins

cc: Kelly Tumino  
Mary Corley  
Well File  
Proration File

Frank Chavez, Supervisor  
NMOCD District III  
1000 Rio Brazos Road  
Aztec, NM 87410

Burlington Resources Oil and Gas Co.  
P.O. Box 4289  
Farmington, NM 87499

District I  
PO Box 1980, Hobbs NM 88241-1980  
District II  
PO Drawer KK, Artesia, NM 87211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name	
		72319		BLANCO MESAVERDE	
4 Property Code		5 Property Name			6 Well Number
000282		ATLANTIC B LS			# 5B
7 OGRID No.		8 Operator Name			9 Elevation
000778		AMOCO PRODUCTION COMPANY			6178

10 Surface Location

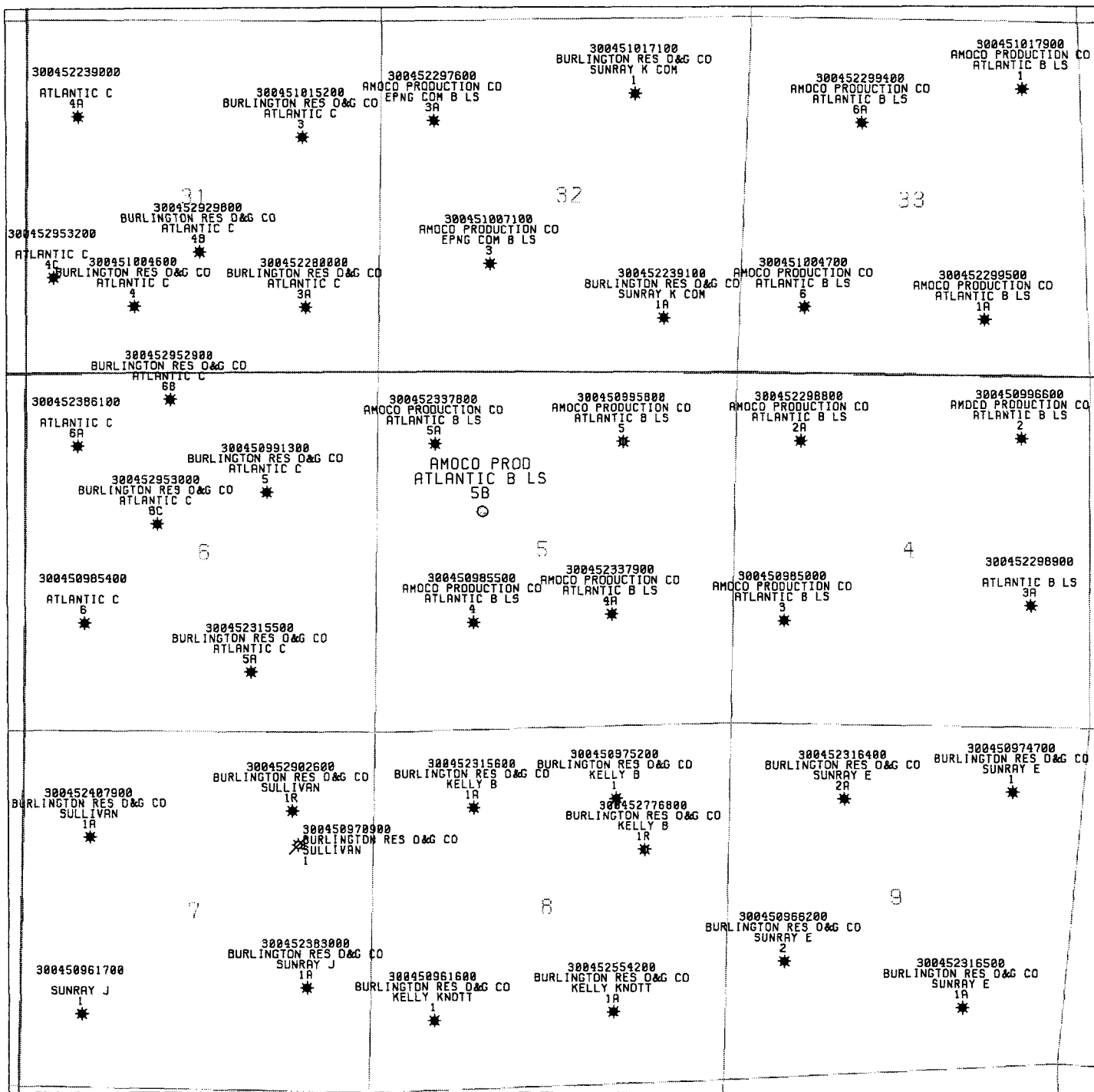
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F (Lot 10)	5	30 N	10 W		2090	NORTH	1580	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

7 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres		13 Joint or Infill		14 Consolidation Code		15 Order No.			
322.11									

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

<p>16</p> <p>40.56</p> <p>Lot 8</p> <p>0.58</p> <p>2090'</p> <p>5271(R)</p> <p>40.41</p> <p>Lot 7</p> <p>40.27</p> <p>Lot 6</p> <p>0.05</p> <p>40.12</p> <p>Lot 5</p> <p>1324(R)</p>				<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Mary Corley</i></p> <p>Signature</p> <p>MARY CORLEY</p> <p>Printed Name</p> <p>SR. BUSINESS ANALYST</p> <p>Title</p> <p>6/7/99</p> <p>Date</p>	
<p>1331(R)</p> <p>40.23</p> <p>Lot 9</p> <p>1580'</p> <p>577'</p> <p>40.19</p> <p>Lot 10</p> <p>40.18</p> <p>Lot 11</p> <p>40.15</p> <p>Lot 12</p> <p>1325(R)</p>					
<p>40.26</p> <p>Lot 16</p> <p>40.28</p> <p>Lot 15</p> <p>40.28</p> <p>Lot 14</p> <p>40.20</p> <p>Lot 13</p> <p>5</p>				<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>May 24, 1999</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p>	
<p>2592(R)</p> <p>40.27</p> <p>Lot 17</p> <p>40.29</p> <p>Lot 18</p> <p>40.31</p> <p>Lot 19</p> <p>40.23</p> <p>Lot 20</p> <p>2653(R)</p>				<p>GARY D. VANN</p> <p>NEW MEXICO</p> <p>REGISTERED PROFESSIONAL LAND SURVEYOR</p> <p>7016</p> <p>7016</p> <p>Certificate Number</p>	
2638(R)		2642(R)			



AMOCO PRODUCTION COMPANY HOUSTON, TEXAS		
ATLANTIC B LS 5B 5-30N-10W MESAVARDE WELLS		
SCALE	DRAWN T. HANSON	DATE 25-JUN-1999
DRAWING		

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

08/18/99 10:31:48  
OGOMES -TP0X  
PAGE NO: 1

Sec : 05 Twp : 30N Rng : 10W Section Type : NORMAL

8 40.56	7 40.41	6 40.27	5 40.12
Federal owned	Federal owned	Federal owned	Federal owned
A	A	A	
9 40.23	10 40.19	11 40.18	12 40.15
Federal owned	Federal owned	Federal owned	Federal owned
			A A

PF01 HELP  
PF07 BKWD

PF02  
PF08 FWD

PF03 EXIT  
PF09 PRINT

PF04 GoTo  
PF10 SDIV

PF05  
PF11

PF06  
PF12

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

08/18/99 10:31:53  
OGOMES -TP0X  
PAGE NO: 2

Sec : 05 Twp : 30N Rng : 10W Section Type : NORMAL

16 40.26	15 40.28	14 40.28	13 40.20
Federal owned	Federal owned	Federal owned	Federal owned
A	A	A	A
17 40.27	18 40.29	19 40.31	20 40.23
Federal owned	Federal owned	Federal owned	Federal owned
A			

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

**Stogner, Michael**

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**From:** Stogner, Michael  
**Sent:** Thursday, July 29, 1999 7:24 AM  
**To:** 'Bill Hawkins (BP/Amoco)'  
**Cc:** Wrotenbery, Lori  
**Subject:** Atlantic "B-LS" #5-B

To complete your NSL request for this application could you provide me with:

- (1) a description of the Atlantic "B-LS" lease; and
- (2) a few more details on the reason for this NSL, like a plat, or a copy of a report, or a letter from the BLM - sorry, just the phrase "archeological concerns" just ain't gona' cut it.

My fax number is (505) 827-1389. Thanks.

**Stogner, Michael**

---

**To:** Bill Hawkins (BP/Amoco)  
**Cc:** Wrotenbery, Lori  
**Subject:** Atlantic "B-LS" #5-B

To complete your NSL request for this application could you provide me with:

- (1) a discription of the Atlantic "B-LS" lease; and
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My fax number is (505) 827-1389. Thanks.



## **Stogner, Michael**

---

**From:** Hawkins, James W[SMTP:hawkinj2@bp.com]  
**Sent:** Monday, August 09, 1999 3:23 PM  
**To:** Stogner, Michael  
**Subject:** FW: Atlantic "B-LS" #5-B

Mike, I just returned to the office today and received your email. The lease information is included in the message below. The well is crowding the S/2 of section 5, T30N-R10W. The lease covers the entire section so there should not be a correlative rights problem. I will send the archeological information as soon as possible.

## **Bill Hawkins**

Regulatory Affairs  
501 WestLake Park Blvd, MC 2.508  
Houston Texas 77079  
Phone: 281-366-5450  
Fax: 281-366-7143  
Email: hawkinj2@bp.com

-----  
**From:** Reinert, Stephen A  
**Sent:** Monday, August 09, 1999 3:41 PM  
**To:** Hawkins, James W  
**Subject:** RE: Atlantic "B-LS" #5-B

Federal lease number is SF 080917. The total acres in the lease is somewhat unclear. A BLM decision letter from 1977 states the lease contains 2538.18 acres, but our Property records say 2220.29 acres. The BLM provided description is T30N-R10W, Section 3: Lots 6,7,12,13; Section 4: Lots 5 thru 20; Section 5: Lots 5 thru 20; T 31N-R10W, Section 33: Lots 1 thru 16; Section 34: Lots 1 thru 9, N/2NE/4, SE/4NE/4.

-----  
**From:** Hawkins, James W  
**Sent:** Monday, August 09, 1999 3:15 PM  
**To:** Reinert, Stephen A  
**Subject:** RE: Atlantic "B-LS" #5-B

Steve please give me the Federal lease number and the total acres in lease. also a description of lands if you have it.

Thanks, Bill

## **Bill Hawkins**

Regulatory Affairs  
501 WestLake Park Blvd, MC 2.508  
Houston Texas 77079  
Phone: 281-366-5450  
Fax: 281-366-7143  
Email: hawkinj2@bp.com

-----  
**From:** Reinert, Stephen A  
**Sent:** Monday, August 09, 1999 12:45 PM  
**To:** Hawkins, James W  
**Subject:** RE: Atlantic "B-LS" #5-B

The Atlantic B LS 5 B well's spacing unit is the N/2 Section 5-T30N-R10W.  
It's on a Federal lease.

Let me know if you need additional information.

-----  
**From:** Hawkins, James W  
**Sent:** Monday, August 09, 1999 10:24 AM  
**To:** Reinert, Stephen A; Corley, Mary L; Shaw, Buddy D  
**Subject:** FW: Atlantic "B-LS" #5-B

Per Mike Stogners e-mail below, I will need some additional data for the location exception for the Atlantic B LS 5B well.

Steve , would you please provide me a legal description of the lease.

Mary or Buddy, please provide some record of the archeological problems with this location. Do we have a copy of the arch report we can provide?

Thanks,

**Bill Hawkins**

Regulatory Affairs  
501 WestLake Park Blvd, MC 2.508  
Houston Texas 77079  
Phone: 281-366-5450  
Fax: 281-366-7143  
Email: hawkinj2@bp.com

-----  
**From:** Stogner, Michael[SMTP:MSTOGNER@state.nm.us]  
**Sent:** Thursday, July 29, 1999 8:37 AM  
**To:** 'Bill Hawkins (BP/Amoco)'  
**Subject:** FW: Atlantic "B-LS" #5-B

-----  
**From:** Stogner, Michael  
**Sent:** Thursday, July 29, 1999 7:24 AM  
**To:** 'Bill Hawkins (BP/Amoco)'  
**Cc:** Wrotenbery, Lori  
**Subject:** Atlantic "B-LS" #5-B

To complete your NSL request for this application could you provide me with:

- (1) a description of the Atlantic "B-LS" lease; and
- (2) a few more details on the reason for this NSL, like a plat, or a copy of a report, or a letter from the BLM - sorry, just the phrase "archeological concerns" just ain't gona' cut it.

My fax number is (505) 827-1389. Thanks.

Arboles Contract Archaeology  
PO Box 5464  
Farmington NM 87499  
(505) 325-6474

August 12, 1999

Bill Hawkins  
BP Amoco  
Box 3092  
Houston TX 77253

Post-it® Fax Note	7671	Date 8-12	# of pages 1
To Bill Hawkins		From ARB-LES	
Co/Dept. BP Amoco		Co.	
Phone #		Phone # 505 325-6474	
Fax # 281 366-7099		Fax #	

re-well pad Atlantic B LS #5B

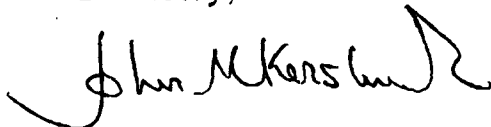
Mr. Hawkins:

A much larger area around the current proposed location for the Atlantic B LS #5B well pad was surveyed. The current location was the only place that avoided destruction to archaeological sites while remaining close to the footage requirements to stake the well pad.

This particular area contains a high density of archaeological occupations. To place the well pad in a standard location would require extensive time delays to excavate and otherwise mitigate the archaeological occupations.

If you have any questions or desire more information, please call. A copy of the report has been sent to the above address.

Sincerely,



John M. Kershner, Principal Investigator

Project no. 99-059  
NMCRIS #64915

Cultural Resource Use Permit  
97-2920-98-H (NM BLM)

An Archaeological Survey  
of the Proposed Well Pad and Pipeline  
Atlantic B LS #5B  
San Juan County, New Mexico  
T30N, R10W, Section 5  
2090'FNL, 1580'FWL

for  
Amoco Production  
200 Amoco Court  
Farmington, NM

prepared and submitted

by  
John M. Kershner

Arboles Contract Archaeology

June 23, 1999

Technical report No. 1709

## Abstract

On May 24 and June 3 and 11, 1999, Arboles Contract Archaeology (Arboles) completed a cultural resources survey of the proposed well pad and pipeline Atlantic B LS #5B for Amoco Production. The proposed access road is contained within the project survey area. The survey is located near Aztec, San Juan County, New Mexico and is under the jurisdiction of the Bureau of Land Management based on BLM surface and mineral ownership. Approximately 7.6 acres were inspected for cultural resources. John Kershner surveyed the project area for archaeological material.

A single site, LA 127199 was recorded during the survey. The site is recommended as potentially eligible to the National Register of Historic Places and Category II status. There are no other properties eligible to the National Register of Historic Places within the survey area. Archaeological clearance to proceed is recommended for the proposed well pad and pipeline with the stipulation that the northeast well pad construction zone not be utilized.

## Introduction

On May 24 and June 3 and 11, 1999, Arboles conducted an archaeological survey for Amoco Production of Farmington, New Mexico. Glen Benfield of G and L Services requested the survey on May 21, 1999 and Kim Stratton administered the project for Amoco Production. John Kershner administered the project for Arboles.

Because of the finite and nonrenewable extent of archaeological remains, the Federal government of the United States has enacted legislation that will conserve and protect these resources. Key legislative enactments consist of the Antiquities Act of 1906 (PL 52-209), the Historic Preservation Act of 1966 (PL 89-655) and as amended (PL 96-515), the National Environmental Act of 1969 (PL 91-852), the 1971 Executive Order No. 11593, the Archaeological and Historical Conservation Act of 1974 (PL 93-291), and the Archaeological Resources and Protection Act of 1979 (PL 96-95). To ensure compliance with federal legislation within specific jurisdictional areas, the Navajo Nations and the states of New

Mexico, Arizona, Colorado and Utah have enacted legislation to protect cultural resources.

### **Description of Undertaking**

The proposed well pad will consist of activities associated with natural gas drilling that includes clearing and leveling the location. The proposed area of effect consists of a 50' construction zone surrounding a 230' x 300' well pad. The pipeline is 92' over an existing pipeline corridor from the proposed well pad buffer zone to a tie-in on an existing bladed road.

### **Methods**

A Class 3 survey of the project area was conducted employing straight line transects spaced 5-8 m apart. The center and corners of the proposed well pad and access road were staked before the area was surveyed. Transects were aligned with a Brunton compass and a corner or center stake and a vegetational or topographic point to ensure complete coverage of the proposed project. The survey area consists of the well pad, construction zone enclosed in a cultural resource buffer zone of 100 feet. The pipeline survey consists of a 50' ROW corridor with a cultural resource buffer zone of 50' walked on either side. All archaeological and relevant environmental data were recorded under the guidelines defined by Cultural Resource Fieldwork and Report Standards and Guidelines published by the USDI Bureau of Land Management - Farmington District in 1994. Archaeological sites were recorded using a Brunton compass and 30m and 3m tapes.

### **Previously Recorded Sites**

Prior to the cultural resources survey of the project area, a records search was conducted at the Bureau of Land Management (BLM) Farmington Resource Area office to identify sites that may have been previously recorded within the project area. The ARMS files were also searched for properties eligible to the National Register of Historic Places within the survey area. The records search on May 21,

1999 produced one site within 500 feet of the project buffer zone (see appendix).

### **PROJECT DESCRIPTION**

Proposed well pad and pipeline Atlantic B LS #5B

#### **Legal Description:**

T30N, R10W, Section 5-2090'FNL, 1580'FWL

W 1/2 SE 1/4 NW1/4; E 1/2 SW 1/4 NW1/4

N.M.P.M., San Juan County, New Mexico

Map Source: U.S.G.S. 7.5' Aztec, New Mexico-1985

Land Jurisdiction: Bureau of Land Management-Farmington District

Project Area: 330' X 400' (proposed well pad and construction zone)

92' X 50' (proposed pipeline)

Surveyed Area: 530' X 600' (proposed well pad, construction and buffer zones)

92' X 150' (proposed pipeline and buffer)

7.6 total acres surveyed

**Project Environment:** The proposed well pad and pipeline are located on a gentle ridge slope above North Fork Arroyo. Soils are deep clay sediments supporting sage, piñon and juniper. Numerous shallow drainages cut through the location.

**Recommendations:** Archaeological clearance to proceed is recommended for the proposed well pad and pipeline with the stipulation that the northeast well pad construction zone not be utilized.

**Cultural resources:** A single site, LA 127199 was recorded during the survey. The site is recommended as potentially eligible to the National Register of Historic Places and Category II status. There are no other properties eligible to the National Register of Historic Places within the survey area.

Occasionally in the shallow drainages are small reddish brown sandstone clasts. These clasts do not appear to be oxidized as the reddish brown color is derived from the clay and sandstone ridge above the location. The clast pockets were trowel tested and did not yield burned material or other cultural indicators.





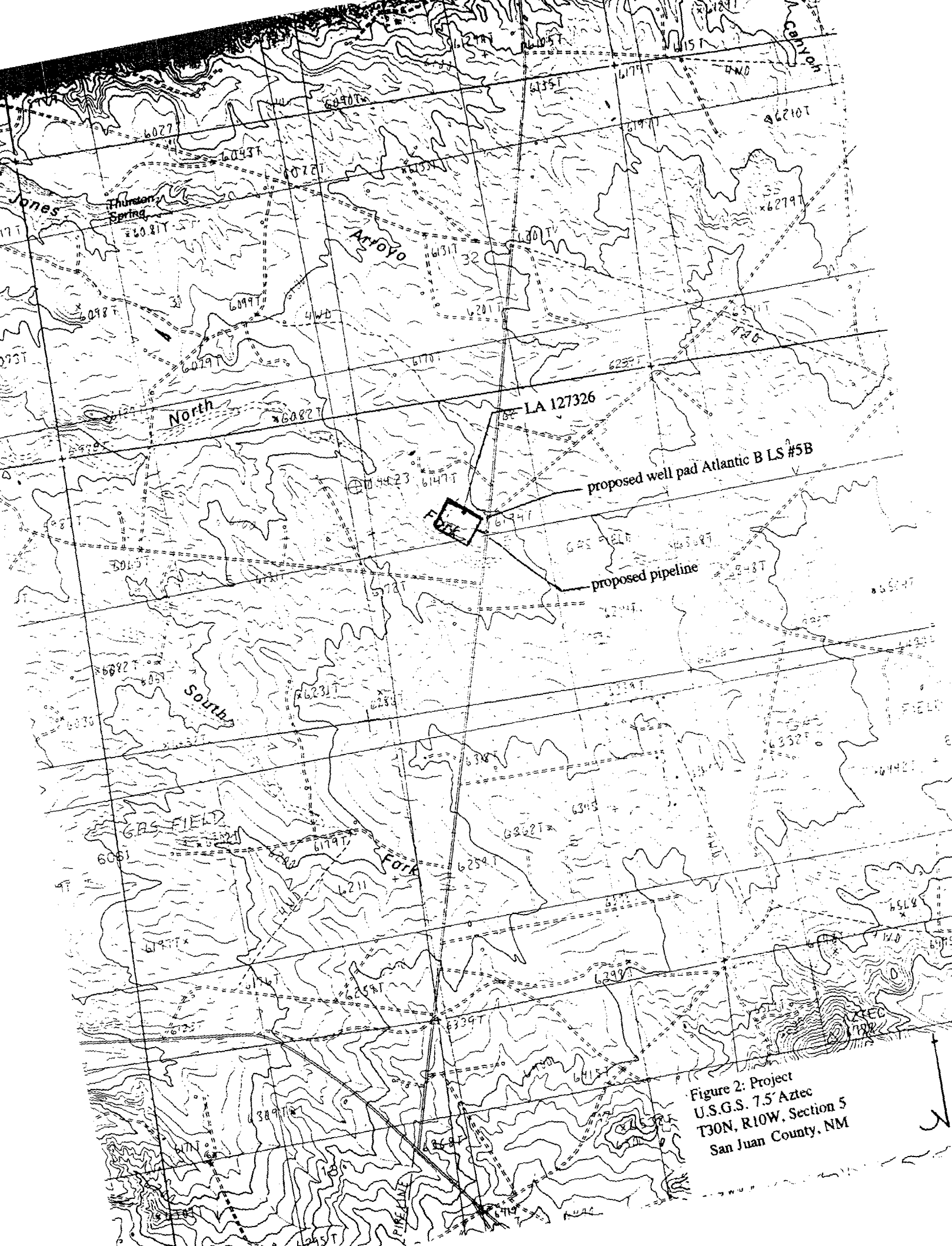


Figure 2: Project  
U.S.G.S. 7.5' Aztec  
T30N, R10W, Section 5  
San Juan County, NM

proposed well pad and pipeline  
Atlantic B LS #5B

LA 127326

buffer

const zone

6

2

3

4

5

proposed pipeline/access

no construction zone

true north

scale: 1cm=15m-50'

existing pipeline corridor

LA 127326

**buffer**

const  
zone

proposed  
pipeline/access

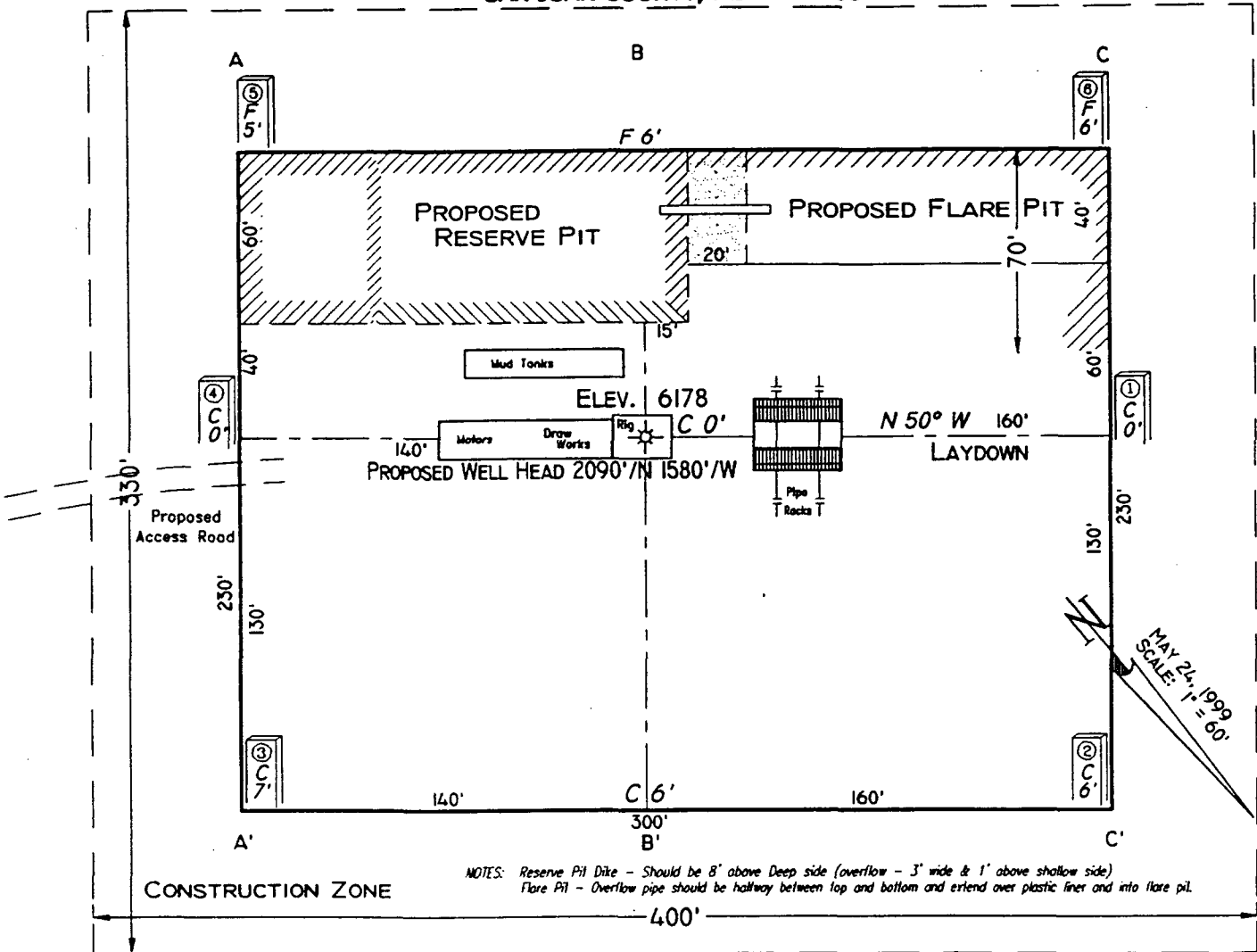
no construction zone



scale: 1 cm=15m~50'

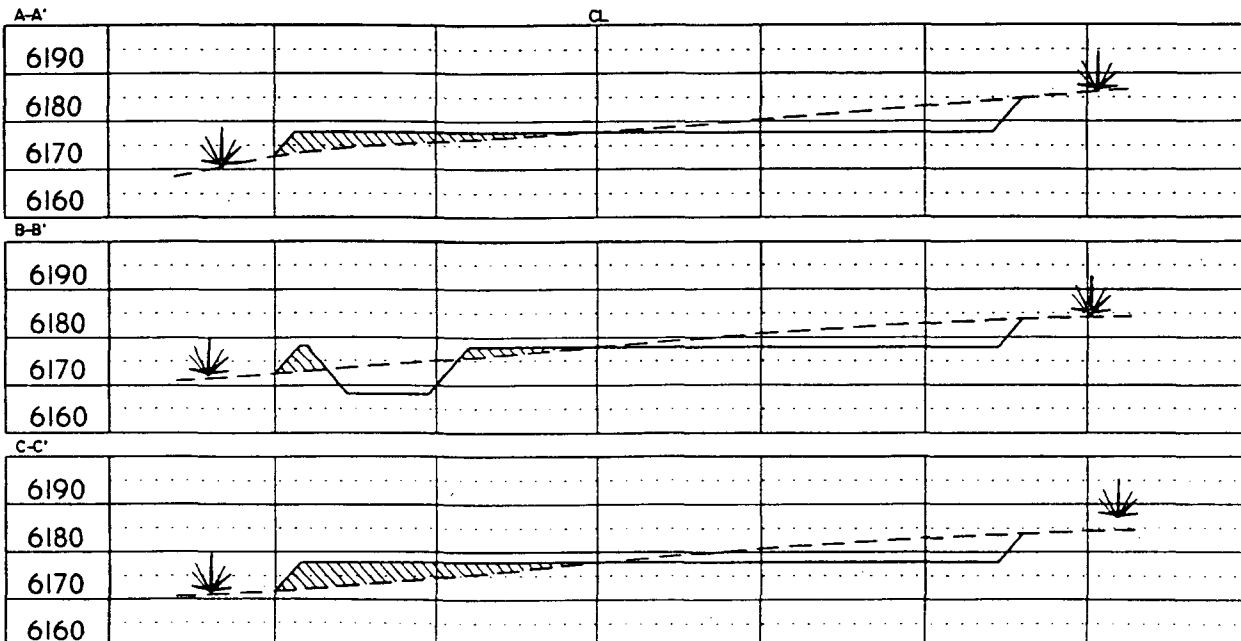
existing pipeline  
corridor

**PAD LAYOUT PLAN & PROFILE**  
**AMOCO PRODUCTION COMPANY**  
**ATLANTIC B LS # 5B**  
**2090' F/NL 1580' F/WL**  
**SEC. 5, T30N, R10W, N.M.P.M.**  
**SAN JUAN COUNTY, NEW MEXICO**



Area of Construction Zone - 330'x400' or 3.03 acres, more or less.

SCALE: 1"=60'-HORIZ.  
1"=40'-VERT.



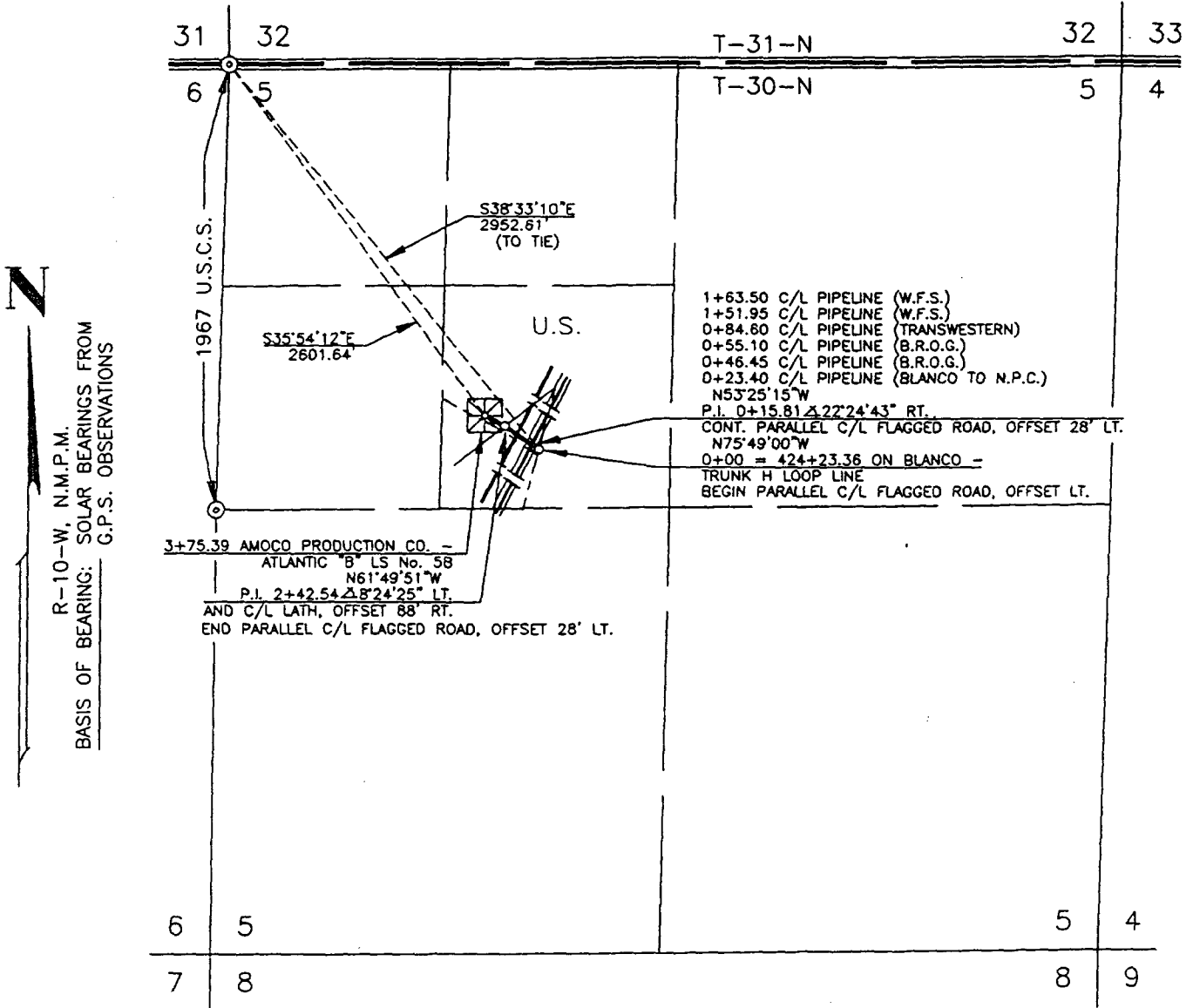
NOTE: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction.

Guts and fills shown are approximate - final finished elevation is to be adjusted so earthwork will balance. Corner stakes are approximate and do not include additional areas needed for sideslopes and drainages. Final Pad Dimensions are to be verified by Contractor.

VANN SURVEYS  
 304 N. Locke  
 Farmington, NM

LINE AMOCO PRODUCTION CO. - ATLANTIC "B" LS NO. 58  
FROM 0+00 = 424+23.36 ON BLANCO TRUNK H LOOP LINE  
(HL731.0-1, R/W NO. 950276)

COUNTY SAN JUAN STATE NEW MEXICO SECTION 5 TOWNSHIP 30-N RANGE 10-W, N.M.P.M.



DWN. BY GV CONSTR. COMMENCED \_\_\_\_\_ APPL. DWG. \_\_\_\_\_ SLACK CHAIN \_\_\_\_\_  
CKD. BY MD CONSTR. COMPLETED \_\_\_\_\_ DATE \_\_\_\_\_ PIPE SIZE 4.50" O.D.

PRINT RECORD

PIPE DATA

METER STA. NO.

MV

1	SJ ROW	6/17/99
7	SJ DIST.	
1	EP-CAD	

NOTE: WELL FLAG  
LOCATION NOT BUILT.

PRELIMINARY

SUBDIVISION	OWNER	LESSEE	METER(S)	RODS	ACRE(S)
SE/4NW/4	UNITED STATES	A.K. BROWN		22.751	0.345