

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

~~CONFIDENTIAL~~

FORM APPROVED  
Budget Bureau No. 1004-0133  
Expires September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other Coal Seam	7. If Unit or C.A. Agreement Designation
2. Name of Operator Amoco Production Company Attn: John Hampton	8. Well Name and No. Barrett "A" #14
3. Address and Telephone No. P.O. Box 800, Denver, Colorado 80201	9. API Well No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1060' FNL, 1200' FEL NE/NE Sec. 19, T31N-R9W	10. Field and Pool, or Exploratory Area Basin Fruitland
	11. County or Parish, State San Juan, New Mexico

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input checked="" type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	

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

13. 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.)\*

Amoco Production Company intends to change the drilling program from a Top Set to a Drill Through. See attached for revised drilling program.

If you have any questions please call Cindy Burton at 303-830-5119.

The subject well has been restaked from 1720 FNL, 1400' FEL, to 1060' FNL, 1200' FEL.

*Not Confidential*

14. I hereby certify that the foregoing is true and correct		
Signed <u>John Hampton/CB</u>	Title <u>Sr. Staff Admin. Supv.</u>	Date <u>8/16/90</u>
(This space for Federal or State office use)		
Approved by _____	Title _____	Date _____
Conditions of approval, if any:		

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special in-

structions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

## SPECIFIC INSTRUCTIONS

*Item 4*—If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

*Item 13*—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive

zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well, and date well site conditioned for final inspection looking to approval of the abandonment.

## NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

**PRINCIPAL PURPOSE** — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

### ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

**EFFECT OF NOT PROVIDING INFORMATION** — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

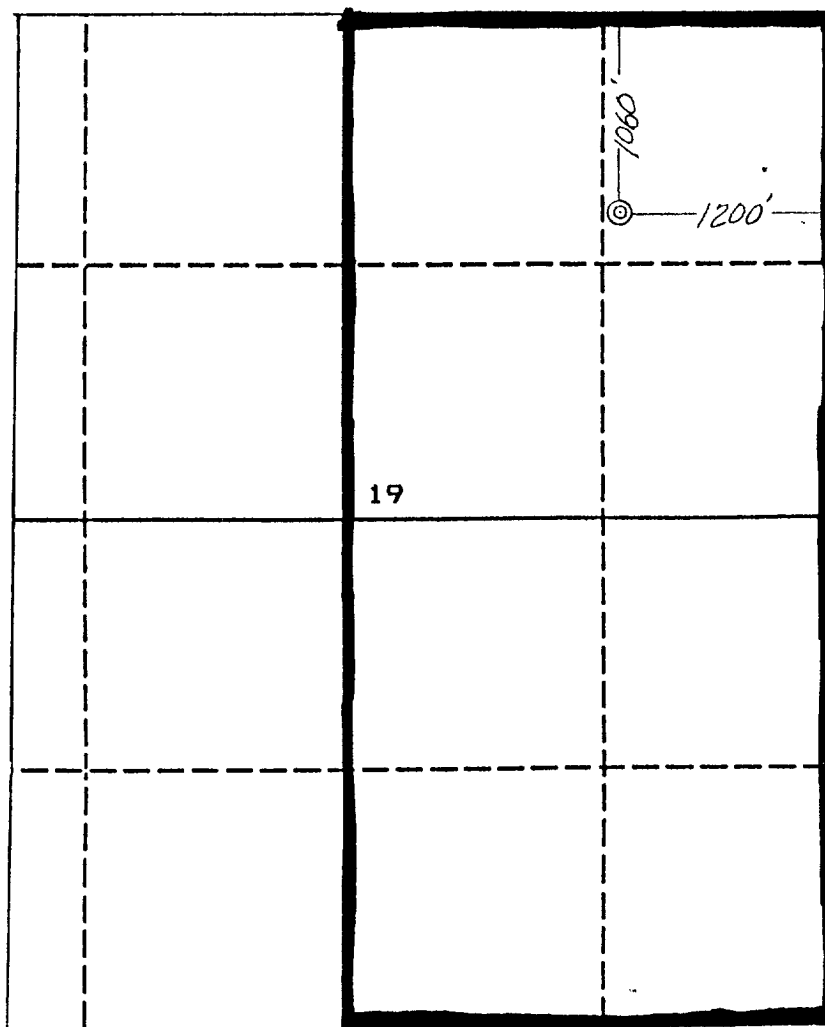
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator <b>AMOCO PRODUCTION COMPANY</b>			Lease <b>BARRETT /A/</b>		Well No. <b># 14</b>
Unit Letter <b>A</b>	Section <b>19</b>	Township <b>31 NORTH</b>	Range <b>9 WEST</b>	County <b>SAN JUAN</b>	
Actual Footage Location of Well: <b>1060</b> feet from the <b>NORTH</b> line and <b>1200</b> feet from the <b>EAST</b> line					
Ground level Elev. <b>6519</b>	Producing Formation <b>Fruitland Coal</b>		Pool <b>Basin Fruitland Coal Gas</b>		Dedicated Acreage: <b>8/2</b> Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary). \_\_\_\_\_  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



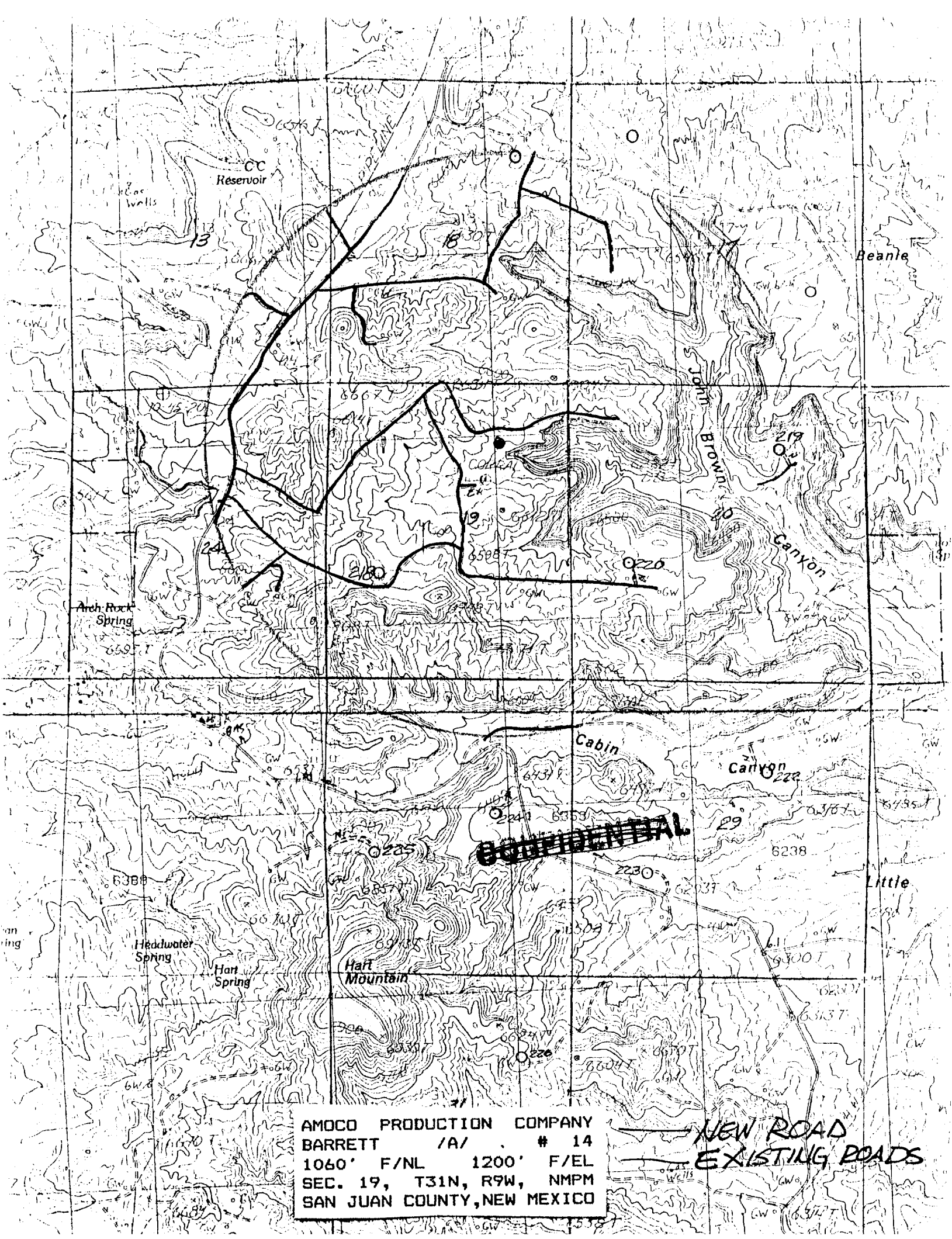
OPERATOR CERTIFICATION  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature  
*J.L. Hampton*  
Printed Name  
**J.L. Hampton**  
Position  
**Sr. Staff Admin. Supv.**  
Company  
**Amoco Prod.**  
Date  
**8-14-90**

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 knowledge and belief.

Date Surveyed  
**June 12, 1990**  
Signature & Seal of Professional Surveyor  
**GARY D. VANN**  
Registered Professional Land Surveyor  
**7016**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0



CC Reservoir

Beale

John Brown

Canyon

Arch Rock Spring

Cabin

Canyon

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Headwater Spring

Hart Spring

Hart Mountain

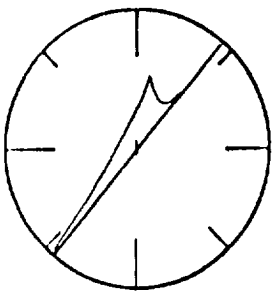
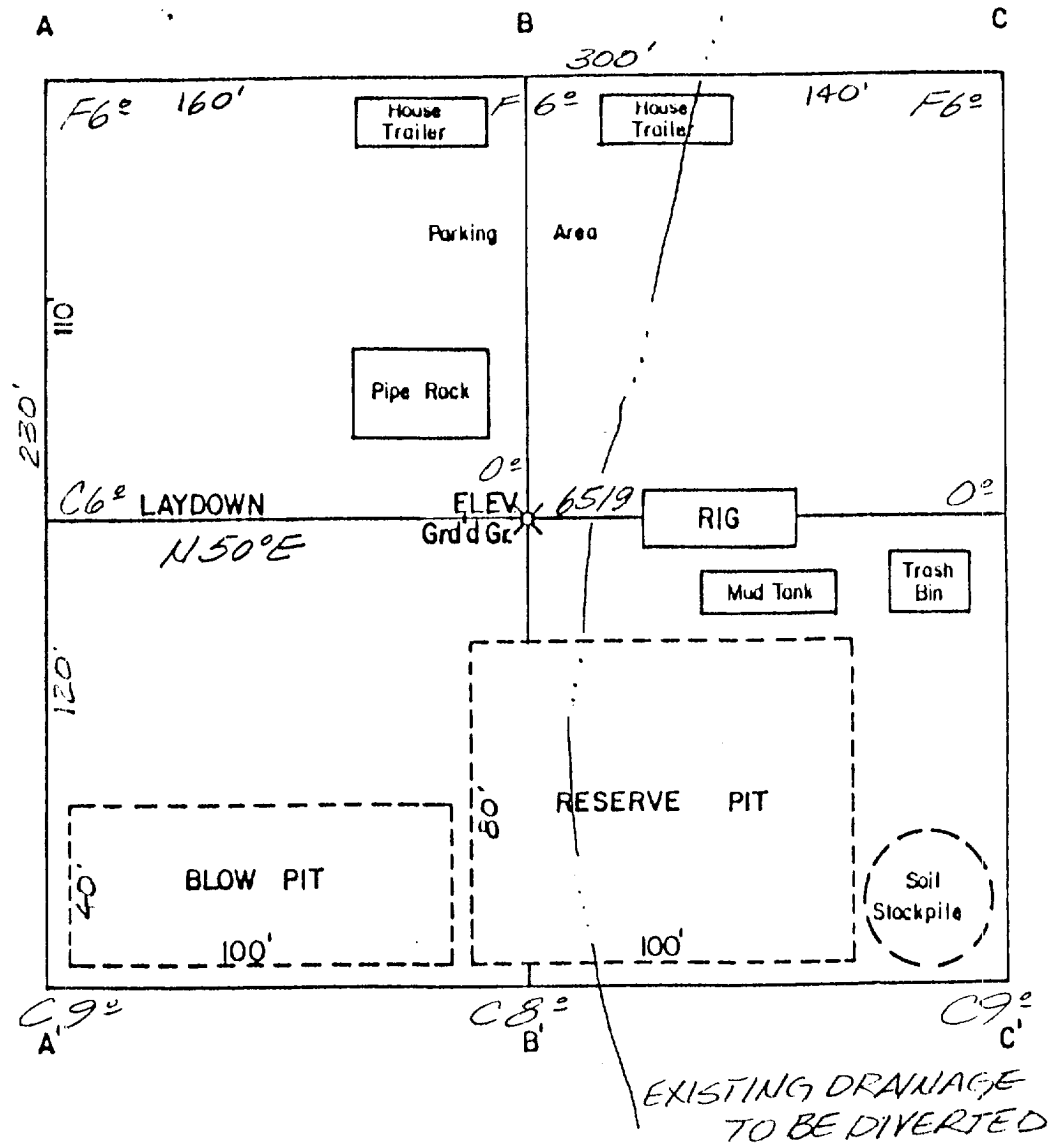
Little

AMOCO PRODUCTION COMPANY  
BARRETT /A/ # 14  
1060' F/NL 1200' F/EL  
SEC. 19, T31N, R9W, NMPM  
SAN JUAN COUNTY, NEW MEXICO

NEW ROAD  
EXISTING ROADS

# PROFILE FOR

AMOCO PRODUCTION COMPANY  
 BARRETT /A/ # 14  
 1060' F/NL 1200' F/EL  
 SEC. 19, T31N, R9W, NMPM  
 SAN JUAN COUNTY, NEW MEXICO



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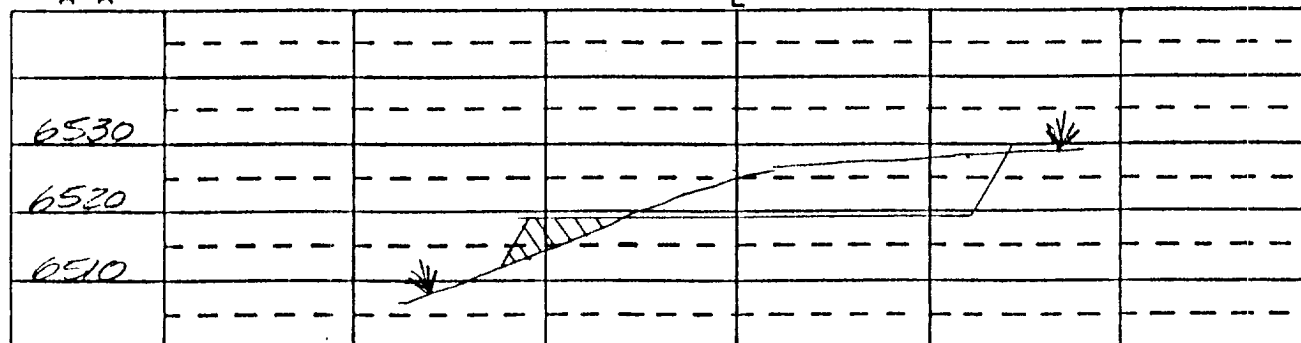
AMOCO PRODUCTION COMPANY  
 BARRETT /A/ # 14  
 1060' F/NL 1200' F/EL  
 SEC. 19, T31N, R9W, NMPM  
 SAN JUAN COUNTY, NEW MEXICO

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SCALE: 1" = 100' Horiz.  
 1" = 30' Vert.

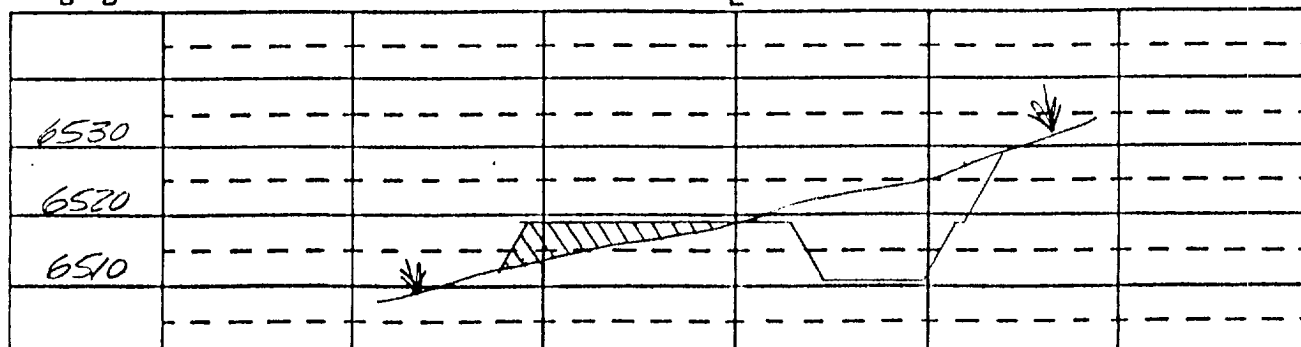
A-A'

E



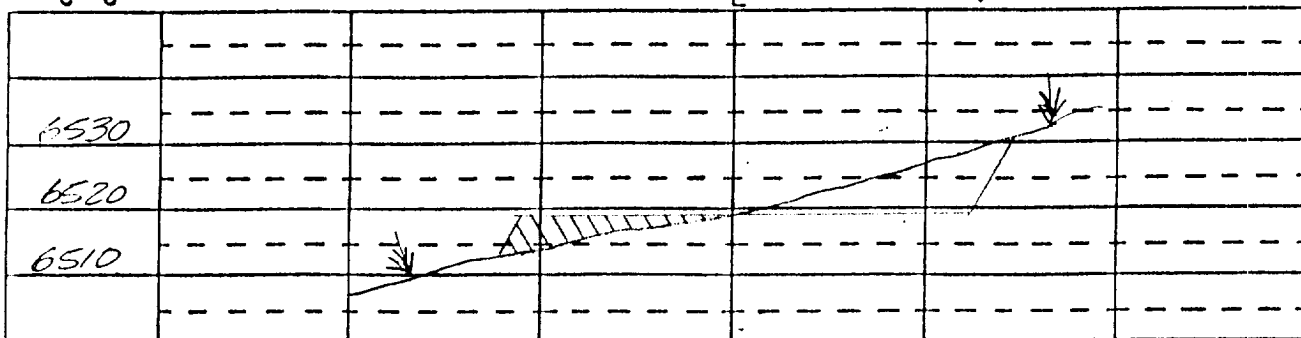
B-B'

E



C-C'

E



# AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Lease & Well # Barratta A #14 Date: \_\_\_\_\_  
 Field Basin Fruitland Coal Gas City/St San Juan/NM FLAC NO. \_\_\_\_\_  
 Surf. Loc. 106 O'FNL, 1200 FEL Operation Center San Juan/Durango  
 Coal Degas # 217 BILOC same Area \_\_\_\_\_

CRITICAL WELL \_\_\_\_\_ NON-CRITICAL WELL \_\_\_\_\_  
 ORIGINAL \_\_\_\_\_ REVISION # \_\_\_\_\_

## SPECIAL SURVEYS

TYPE DEPTH INTERVAL  
 FDC/GR/CAL (TD+1000')-TD  
 Microlog (TD+1000')-TD

REMARKS Run FDC at slow speed high sample rate through bottom 1000' of hole. Bulk Density presentation as per standard coal log format. Customer edit 9 track LJS tape to W.L. Pelzmann in Denver - ASAP

## SPECIAL TESTS

None

## REMARKS

## APPROXIMATE DEPTHS OF GEOLOGICAL MARKERS

ESTIMATED ELEVATION 6519 KB

MARKER	TVD ELEV.	MEAS. DEPTH
Ojo Alamo	+4428	2091
Fruitland #	+3605	2914
Pictured Cliffs	+3212	3307

TOTAL DEPTH +3012 3507

\*POSSIBLE PAY #PROBABLE COMPLETION INTERVAL

DRILL CUTTING SAMPLES	DRILLING TIME
FREQUENCY DEPTH INTERVAL	FREQUENCY DEPTH INTERVAL
None	Geolograph BSC-TD

REMARKS Correct for actual elevation if necessary  
 The actual total depth will be 200' below the last coal.

## MUD PROGRAM

Approximate Interval	Type Mud	Weight #/Gal.	Viscosity Sec. API	W.I. CC/30M	Other Specifications
0-250'	spud				
250-TD	LSND	8.6-11.0			

Sufficient to clean hole and maintain hole conditions for logs.

Remarks:

CASING PROGRAM (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)

CASING STRING CONDUCTOR	EST. DEPTH	CASING SIZE	HOLE SIZE	SX CEMENT	TYPE CEMENT	DESCRIP. OF LANDING PT
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SURFACE	250'	8 5/8"	12 1/4"	to sfc.	**	
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INTERMEDIATE

OIL STRING	TD	5 1/2"	7 7/8"	to sfc.	**	
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LINER CASING

Remarks: \*\* Operation Center Drilling Engineer to design.

Amoco proposes to drill the well to further develop the Fruitland Coal reservoir. The well will be drilled to the surface casing point using native mud. The well will then be drilled to the total depth with a non-dispersed mud system. The attached modified 12" 3000 psi blowout preventer will be used (please see attached BOP information). The well will be completed in the Fruitland Coal with a fracture stimulation.

<u>Quantity</u>	<u>Size</u>	<u>Weight</u>	<u>Description</u>	<u>Cementing Program</u>
<u>SURFACE CASING</u>				
250'	8-5/8"	24#	K55 ST&C	250 cf Class B, 2% CaCl <sub>2</sub> 15.6 ppg
<u>INTERMEDIATE STRING</u>				
3507	5.5"	17#	K55 ST&C	981 cf Class B, 65:35:6 10% salt, .25% dispersant 13.1 ppg 118 cf Class B, 2% CaCl <sub>2</sub> 15.6 ppg

The above casing design is based upon a 11.0#/gal mud weight.

#### EVALUATION

The log surveys (FDC/GR/CAL, Microlog) will be run per attached drilling and completion program.

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SAN JUAN BASIN  
FRUITLAND COAL DEGASIFICATION  
(DRILL THROUGH WELLS)  
PRESSURE CONTROL EQUIPMENT

Background

The objective Fruitland Coal formation maximum surface pressure is anticipated to be 1400 PSI, based on completion testing. Pressure control equipment working pressure minimum requirements are therefore 2000 PSI. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 PSI system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 PSI rated pressure control equipment will typically be utilized in a double ram type arrangement. Regional drilling rigs to be utilized have substructure height limitations which exclude use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below surface to total depth in the Pictured Cliffs.

Equipment Specification

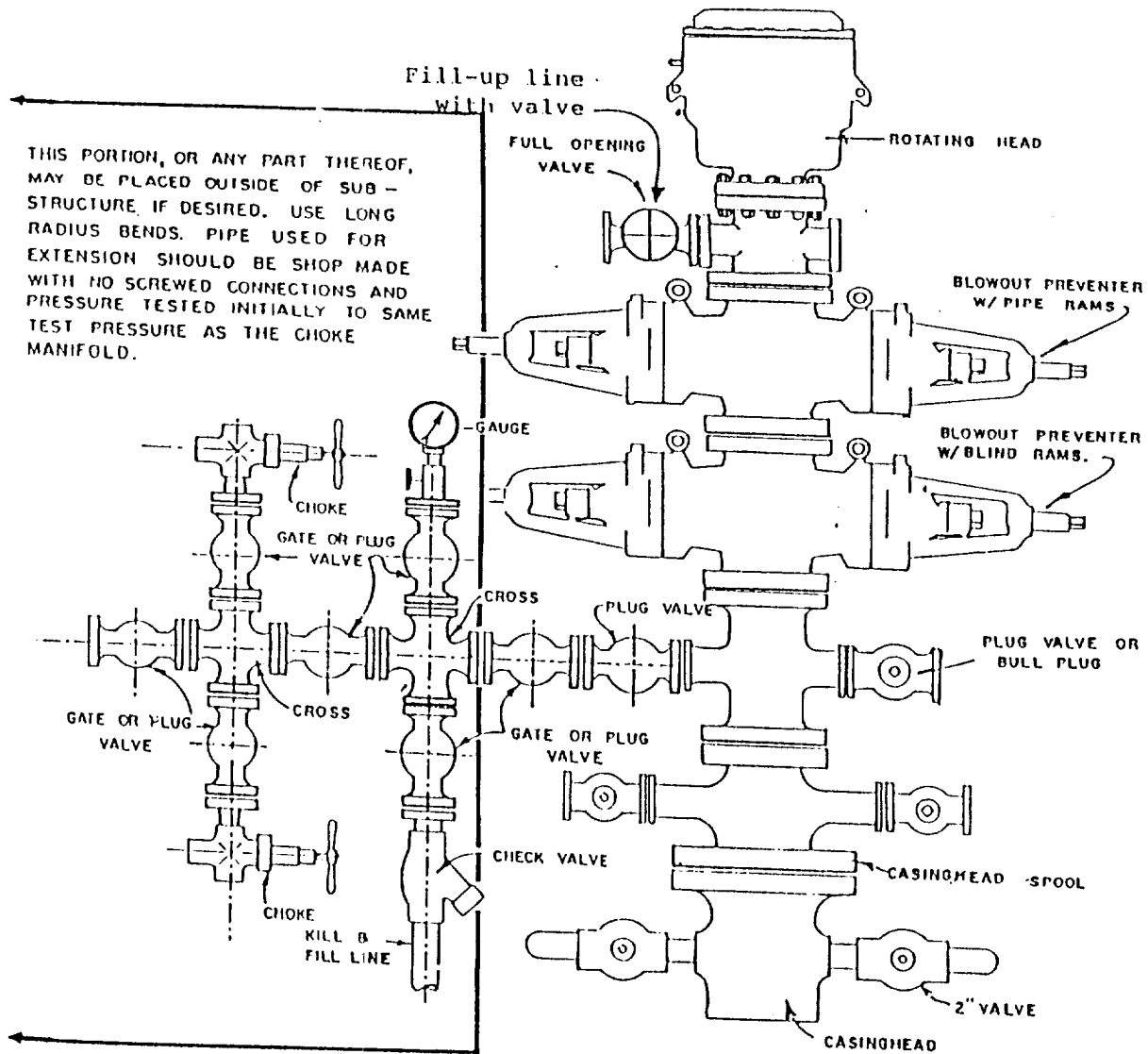
<u>Interval</u>	<u>BOP Equipment</u>
Below Surface Casing to Total Depth	12" nominal, 3000 PSI double ram preventer with rotating head (see Exhibit No. 1 - BOPE)

All ram type preventers and related control equipment will be hydraulically tested to 250 PSI (low pressure) and 2000 PSI (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, floor safety valves and choke manifold which will also be tested to equivalent pressure.

Please direct any questions to George Gray at (303) 830-5190 in our Denver office.

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# EXHIBIT NO. 1 - BOPE



BLOWOUT PREVENTER HOOKUP

