FORM 3160-3
(July 1992)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.
SF - 078139

6. IF INDIAN, ALOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

1a. TYPE OF WORK **DRILL** [X] **DEEPEN** [ ]

b. TYPE OF WELL
OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [X]

8. FARM OR LEASE NAME, WELL NO.
E. E. ELLIOTT B 8M

2. NAME OF OPERATOR **AMOCO PRODUCTION COMPANY**
P.O. BOX 3092
HOUSTON , TX 77079

9. API WELL NO.
30-045-30608

3. ADDRESS AND TELEPHONE NO.
MARY CORLEY
AUTHORIZED REPRESENTATIVE
PHONE:281.366.4491 EXT:
FAX: 281.366.0700
EMAIL:corleyml@bp.com

10. FIELD AND POOL, OR WILDCAT
BASIN DAKOTA/BLANCO MESAVERDE

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At Surface
770FSL AND 2420FEL SWSE SEC 27 T30N R9W
At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SECTION 27 T30N R9W
MERIDIAN NMP

14. DISTANCE IN MILES AND DIRECTION FROM THE NEAREST TOWN OR POST OFFICE
14 MILES FROM AZTEC, NM

12. COUNTY OR PARISH
SAN JUAN

13. STATE
NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
	320.00	**320.00** 5/2
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE FT.	19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
	7245 MD / TVD	**ROTARY**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
~~5840~~ GL 5836'

22. APPROX. DATE WORK WILL START*
04/30/2001

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

Notice of Staking Submitted 02/26/2001. Amoco Production Company respectfully request permission to drill the subject well to a total depth of approximately 7245', complete in the Basin Dakota Pool, produce the well for approximately 30 days to estalish production rate, add the Blanco Mesaverde Pool and commingle production downhole. Application for downhole commingling authority (NMOCD order R-11363) will be submitted to all appropiate parties for approval after production has been established in the Basin Dakota Pool and prior to completion of and downhole commingling with the Blanco Mesaverde. In support of our application for permit to drill we have attached 8 documents (1 .doc and 7 .pdf files).

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
ELECTRONIC SUBMISSION #3126 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
FOR AMOCO PRODUCTION COMPANY SENT TO THE FARMINGTON FIELD OFFICE

SIGNED **MARY CORLEY** TITLE **AUTHORIZED REPRESENTATIVE** DATE **03/21/2001**

NSL for Basin Dakota

PERMIT NO. _____ APPROVAL DATE 6/13/01

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations theron.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE _____ DATE _____

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

2001 JUN -7 AM 9:19

070 FARMINGTON NM

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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

5. Lease Designation and Serial No.
SF-078139

6. If Indian, Allottee or Tribe Name
NA

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
EE Elliott

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
EE Elliott B #8M

2. Name of Operator
BP Amoco Production Company

9. API Well No.

3. Address and Telephone No.
200 Amoco Court, Farmington, NM 87401 5-5-326-9200

10. Field and Pool, or Exploratory Area
San Juan Basin

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
730'FSL, 2415' FWL, Sec 27, T30N, R9W

11. County or Parish, State
San Juan County, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☒ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other _____	☐ Dispose Water

(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.)*

This well was staked in a 1/4 section with an existing Dakota Well.

The well site is now staked in a 1/4 section that does not have a Dakota Well.

Request to move the EE Elliott B #8M Well site from 77' FSL & 2420' FEL to 730' FSL & 2415 FWL, Section 27, T30N, R9W.

JUN 2001
RECEIVED
OIL CON DIV
DIST 3

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

Signed _____ Title CONTRACT AGENT Date 6-6-2001

(This space for Federal or State office use)

Approved by _____ Title _____ Date JUN 13

Conditions of approval, if any:

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

*See Instruction on Reverse Side

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
30-045-30608	71599	Basin DAKOTA

[4] Property Code	[5] Property Name	[6] Well Number
000470	E. E. Elliott B	# 8M

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	AMOCO PRODUCTION COMPANY	5836

[10] Surface Location

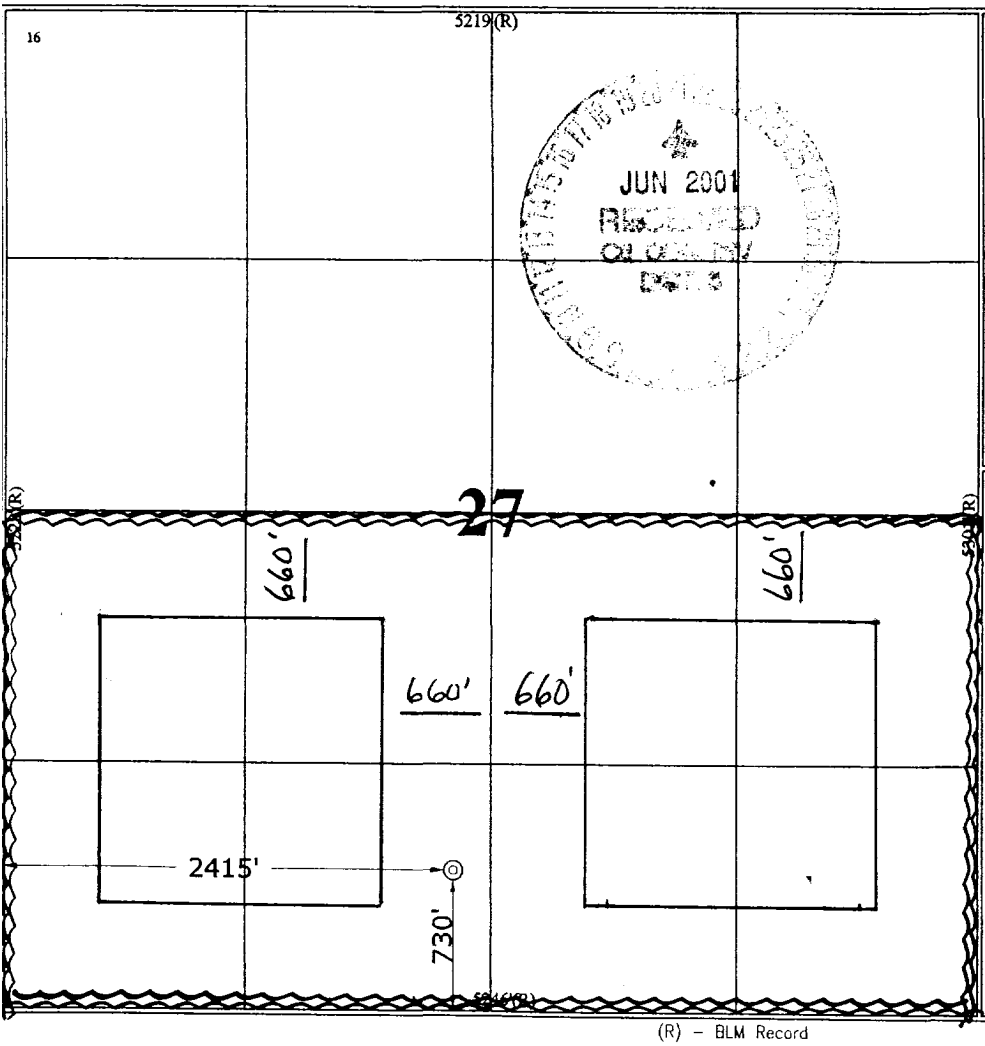
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	27	30 N	9 W		730	SOUTH	2415	WEST	SAN JUAN

[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.
320			

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



[17] OPERATOR CERTIFICATION

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

Signature: Mary Corley

Printed Name: MARY CORLEY

Title: Sr. Regulatory Analyst

Date: 6·18·2001

[18] 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.

May 4, 2001
Date of Survey

Signature and Seal of Professional Surveyor

GARY D. VANN
NEW MEXICO
7016
REGISTERED PROFESSIONAL LAND SURVEYOR

7016
Certificate Number

(R) – BLM Record

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
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Form C-102
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Submit to Appropriate District Office
State Lease - 4 Copies
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-30608	72319	BLANCO MESAVERDE

[4] Property Code	[5] Property Name	[6] Well Number
000470	E. E. Elliott B	# 8M

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	AMOCO PRODUCTION COMPANY	5836

[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
N	27	30 N	9 W		730	SOUTH	2415	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.
320.			

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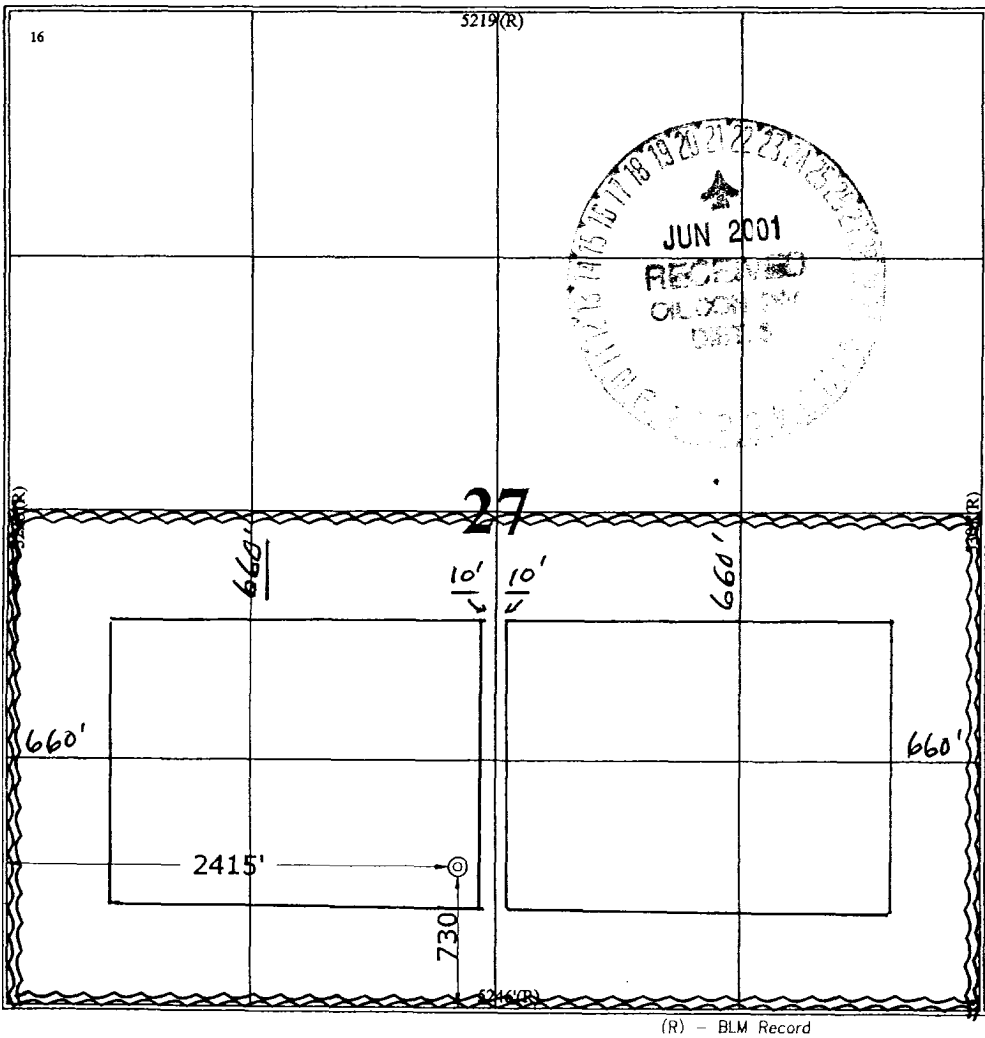

(R) – BLM Record

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Title: Sr. Regulatory Analyst

Date: 06-18-2001

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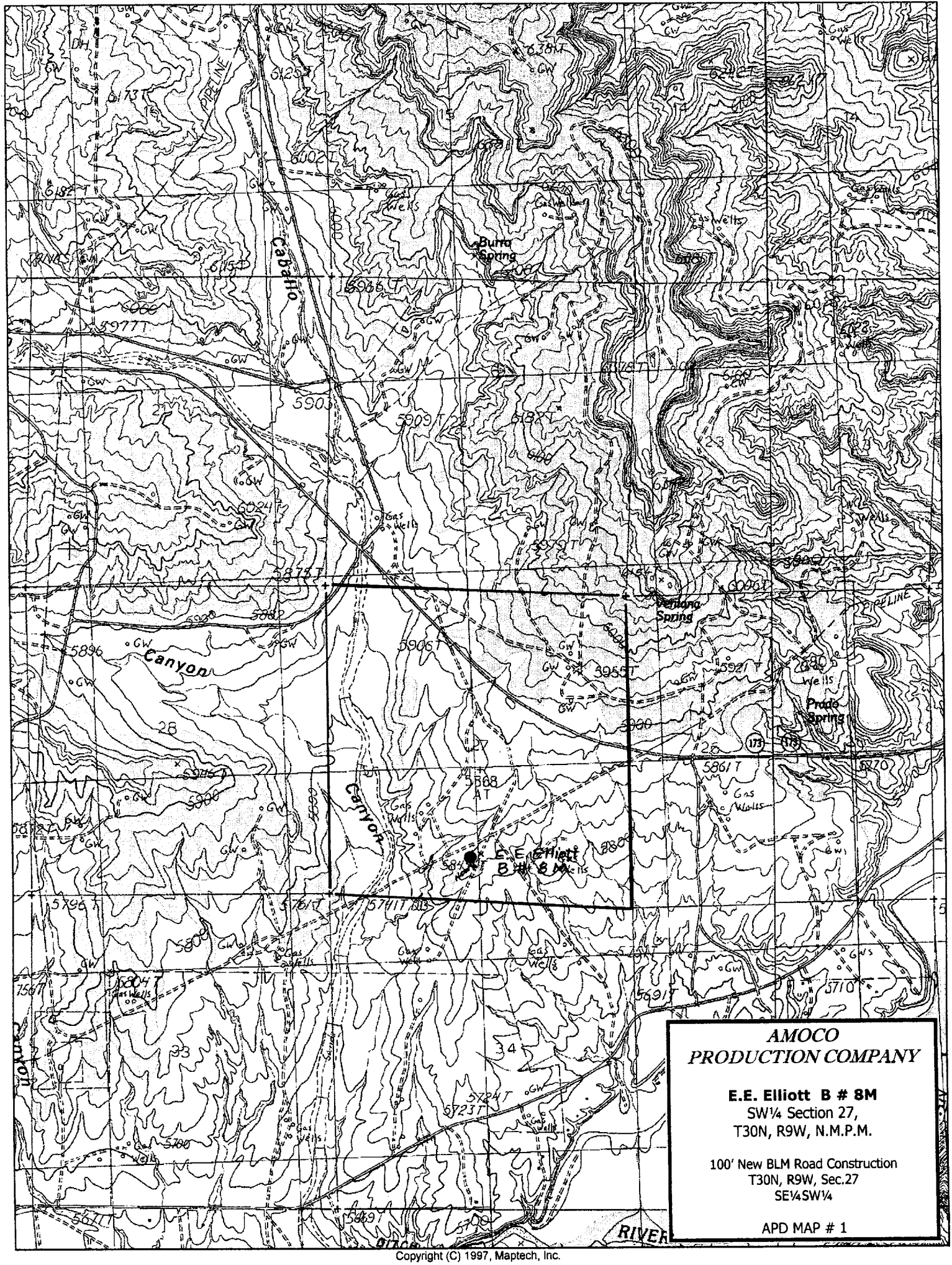
Date of Survey: May 4, 2001

Signature and Seal of Professional Surveyor

GARY D. VANN
NEW MEXICO
7016
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number: 7016



AMOCO
PRODUCTION COMPANY

E.E. Elliott B # 8M
SW¼ Section 27,
T30N, R9W, N.M.P.M.

100' New BLM Road Construction
T30N, R9W, Sec.27
SE¼SW¼

APD MAP # 1

AMOCO PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM

Prospect Name: E.E. Elliott B
Lease: E.E. ELLIOTT B
County: San Juan
State: New Mexico
Date: March 21, 2001

Well No: 8M
Surface Location: 27-30N-9W, 770 FSL,2420 FEL
Field: Blanco Mesaverde/Basin Dakota

OBJECTIVE: Drill 400' below the base of the Greenhorn Limestone, set 4" Liner across Dakota, Stimulate LS, CH, MF, PL and DK intervals

METHOD OF DRILLING

TYPE OF TOOLS	DEPTH OF DRILLING
Rotary	0 - TD

LOG PROGRAM

TYPE	DEPTH INVERAL
OPEN HOLE	
GR-Induction	TD to 5 ½" shoe
Density/Neutron	TD to 5 ½" shoe
Sonic	TD to 5 ½" shoe
CASED HOLE	
GR-CCL-TDT	TDT - PBTD-7 5/8" shoe
	GR-CCL - PBTD-0'
CBL	Top of 4" - 50' above 7 5/8 "shoe

REMARKS:
- Please report any flares (magnitude & duration).

APPROXIMATE DEPTHS OF GEOLOGICAL MARKER

Estimated GL: 5840 Estimated KB: 5854

MARKER		SUBSEA	MEAS. DEPTH
Ojo Alamo		4488	1366
Fruitland Coal	*	3843	2011
Pictured Cliffs	*	3298	2556
Lewis Shale	#	3253	2601
Cliff House	#	1684	4170
Menefee Shale	#	1505	4349
Point Lookout	#	1073	4782
Mancos		922	4933
Greenhorn		-940	6794
Bentonite Marker		-991	6845
Two Wells	#	-1032	6886
Dakota MB	#	-1182	7036
Burro Canyon	*	-1292	7146
Morrison	*	-1342	7196
TOTAL DEPTH		-1391	7245

Probable completion interval * Possible Pay

SPECIAL TESTS

TYPE
None

REMARKS:

DRILL CUTTING SAMPLES

FREQUENCY	DEPTH
10 feet	Production hole

DRILLING TIME

FREQUENCY	DEPTH
Geograph	0-TD

MUD PROGRAM:

Approx. Interval			Type Mud	Weight, #/gal	Vis, sec/qt	W/L cc's/30 min	Other Specification
0	- 120-135	3 jts.	Spud	8.6-9.2			
120-135	- 1961	(1)(2)	Water/LSND	8.6-9.2			
1961	- 6845		Gas/Air/Mist	Volume sufficient to maintain a stable and clean wellbore			
6845	7245		LSND	8.6-9.2			

REMARKS:
(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.
(2) Top set Fruitland Coal to minimize lost circulation, air volume to maintain hole stability.

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

Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	120-135	10 3/4"	J-55 ST&C	40.5#	14.75"	1
Intermediate 1	1961	7 5/8"	K-55 LT&C	26.4#	9.875"	1,2
Intermediate 2	6845	5 ½"	K-55 LT&C	15.5#	6.75"	4
Production (liner)	7245	4"	K-55 H 511	11#	4.75"	3

REMARKS:
(1) Circulate Cement to Surface
(2) Set casing 50' above Fruitland Coal
(3) Liner Lap should be a minimum of 100'
(4) Bring cement 200' above 7 5/8" shoe

CORING PROGRAM:
None

COMPLETION PROGRAM:
Rigless, 4-6 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:
Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

Form 46 Reviewed by: Logging program reviewed by: N/A

PREPARED BY:	APPROVED:	DATE:	
KAS/KAT		March 2, 2001 Version 1.0	

Form 46 12-00 KAT

Cementing Program: E. E. Elliott B 8M

	Surface	Intermediate	I2	Liner
Excess %, Bit	100%	80	50	10
Excess %, Caliper	NA	NA	NA	30
BHST (est deg. F)	60	120	150	160
Pipe Movement	NA	Rotate/Reciprocate	Rotate/Reciprocate	as per Liner Co.
Rate, Max (bpm)	7	4	4	2
Rate Recommended (bpm)	6	4	3	2
Pressure, Max (psi)	200	2000	2000	2000
Shoe Joint	40	80	80	40
Batch Mix	NA	NA	NA	NA
Circulating prior cmtng (hr)	0.5	1.5	2.5	2
Time Between Stages, (hr)	NA	NA	NA	NA
Special Instructions	1,6,7	1,6,8	1,6,9	2,3,4,6

1. Do not wash pumps and lines.
2. Wash pumps and lines.
3. Reverse out
4. Run Blend Test on Cement
5. Record Rate, Pressure, and Density on 3.5" disk
6. Confirm densitometer with pressurized mud scales
7. 1" cement to surface if cement is not circulated.
8. If cement is not circulated to surface, run temp. survey 10-12 hr. after landing plug.

Notes:

*Do not wash up on top of plug. Wash lines before displacing liner cement job to minmize drillout.

** After cement set time the liner top will be drilled out and liner circulated clean with treated water.

*** Run TMD cased hole logs to identify pay; Perforating and CH logs can be run rigless.

Surface:

Preflush	20 bbl.	FreshWater	
Slurry 1	120sx	Class G Cement	139cuft
TOC@Surface		+ 2% CaCl2 (accelerator)	
		0.25 #/sk Cellophane Flake (lost circulation additive)	0.5563cuft/ft OH
		0.1% D46 antifoam	100% excess

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	15.8	1.16	4.95

Casing Equipment:

10-3/4", 8R, ST&C
1 Guide Shoe
1 Top Wooden Plug
1 Autofill insert float valve
4 Centralizers
1 Stop Ring
1 Thread Lock Compound

Intermediate:

Fresh Water		20 bbl	fresh water	
Lead		188	sx Class "G" Cement	546 cuft
Slurry 1			+ 3% D79 extender	
TOC@Surface			+ 2% S1 Calcium Chloride	
			+1/4 #/sk. Cellophane Flake	
			+ 0.1% D46 antifoam'	
Tail		152	sx 50/50 Class "G"/Poz	193 cuft
Slurry 2			+ 2% gel (extender)	
	500 ft fill		0.1% D46 antifoam	0.2148 cuft/ft OH
			+1/4 #/sk. Cellophane Flake	0.2338 cuft/ft csg ann
			+ 2% CaCl2 (accelerator)	80 % excess

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	11.4	2.9	17.77
Slurry 2	13.5	1.27	5.72

Casing Equipment:
7-5/8", 8R, ST&C
1 Float Shoe (autofill with minimal LCM in mud)
1 Float Collar (autofill with minimal LCM in mud)
1 Stop Ring
9 Centralizers (one in middle of first joint, then every third collar)
2 Fluidmaster vane centalizers @ base of Ojo
8 Centalizers one every 4th joint from Ojo to base of surface casing
1 Top Rubber Plug
1 Thread Lock Compound

Int 2:

Fresh Water		10 bbl	CW100	
Lead		467	LiteCrete D961 / D124 / D154	1000 cuft
Slurry 1			+ 0.03 gps D47 antifoam	
TOC@Surface			+ 0.5% D112 fluid loss	
			+ 0.11% D65 TIC	
Tail		80	sx 50/50 Class "G"/Poz	115 cuft
Slurry 2			+ 5% D20 gel (extender)	+ 5 #/sk D24 gilsonite
	500 ft fill		+ 0.1% D46 antifoam	+ 0.15% D65 TIC
			+ 1/4 #/sk. Cellophane Flake	+ 0.1% D800 retarder
			+ 0.25% D167 Fluid Loss	
				0.1521 cuft/ft OH

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)	50 % excess 0.0999 cuft/ft csg ann
Slurry 1	9.5	2.14	6.38	
Slurry 2	13	1.44	6.5	

Casing Equipment:
5-1/2", 8R, ST&C
1 Float Shoe (autofill with minimal LCM in mud)
1 Float Collar (autofill with minimal LCM in mud)
1 Stop Ring
35 Centralizers (every third joint
1 Top Rubber Plug
1 Thread Lock Compound

Cementing Program: E. E. Elliott B 8M

Production (liner):

Preflush		10 bbl.	CW100 / LCM wash	
Lead Cement			2350/50 Poz/G	34 cuft
Slurry 1			5% D20 bentonite	0.1% D46 antifoam
	100 ft lap		0.25#/sk D29 cellophane	
	100 ft cap		0.25% D167 Fluid loss	0.0358 cuft/ft OH
			0.15% D65 TIC	0.0464 cuft/ft csg ann
			0.15% D800 retarder	0.1336 cuft/ft csg

Slurry Properties:	Density (lb/gal)	(ft3/sk)	Water (gal/sk)	10 % excess
Slurry 1	13	1.44	6.5	

Liner Float Equipment: Float Shoe and Float Collar (furnished by Liner Hanger Company)
1 Thread Lock Compound

Note:

1. Coordinate w/Liner hand to drop plug, or set/release Liner as required
2. The job should be pumped at 2-3 bpm max rate. Do not exceed 3 bpm on displacement
3. Wash pump and lines before displacement. Slow to 1 bpm for the last 30 bbl of displacement.
4. This is to be a rigless completion. After cement set time, liner top will be dressed off an liner circulated clean with 2 % KCl or 2 gal/1000 gal L64.

FEDERAL CEMENTING REQUIREMENTS

1. **All permeable zones containing fresh water and other usable water containing 10,000 PPM or less total dissolved solids will be isolated and protected from contamination by cement circulated in place for the protection of permeable zones per the NTL-FRA 90-1 Section III A.**
2. **The hole size will be no smaller than 1 ½" larger diameter than the casing O.D. across all water zones.**
3. **An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement.**
4. **An adequate number of casing centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. The adequate number of centralizers to use will be determined by API SPEC 10D.**
5. **Centralizers will impart a swirling action around the casing and will be used just below and into the base of the lowest usable water zone.**
6. **A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.**

Amoco Production Company
BOP Pressure Testing Requirements

Well Name: E. E. Elliott B 8M
County: San Juan State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1366		
Fruitland Coal	2011		
PC	2556		
Lewis Shale	2601		
Cliff House	4170	500	0
Menefee Shale	4349		
Point Lookout	4782	600	0
Mancos	4933		
Dakota	6886	2600	1515

** Note: Determined using the following formula: ABHP - (.22 * TVD) = ASP

Requested BOP Pressure Test Exception: 3000 PSI

SAN JUAN BASIN
Dakota Formation
Pressure Control Equipment

Background

The objective Dakota formation maximum surface pressure is anticipated to be less than 1000 PSI, based on shut-in surface pressures from adjacent wells. 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 rights to be utilized have substructure height limitations which exclude the 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 conductor to total depth in the Basin Dakota. No abnormal temperature, pressure, or H2S anticipated.

Equipment Specification

Interval	BOP Equipment
Below conductor casing to total depth	11" nominal or 7 1/16",3000 PSI double ram preventer with rotating head.

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, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.