Form 3160-5 (August 1999)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

5.	Lease Serial No.
	SF - 078139

SF - 078139	

Do not use thi	NOTICES AND REPO s form for proposals to l. Use form 3160-3 (AP	drill or to re-er	uteran 45	6	SF - 078139  6. If Indian, Allotte	e or Tribe Name	
SUBMIT IN TRI	PLICATE - Other instru	ctions on fever	se side 20	01	7. If Unit or CA/Ag	recement, Name and/or No.	
Type of Well	er	6274	OIL CON D		8. Well Name and N E. E. ELLIOT	No. Т В 8М	
Name of Operator     AMOCO PRODUCTION COM	PANY Contact:	MARY CORDE E-Mail: code	A 2101. 3		9. API Well No. 30-045-30608	3	
3a. Address P.O. BOX 3092 HOUSTON, TX 77253		3b. Phone No. (Ph: 281.366.) Fx: 281.366.0	nclode area code)	il Gladia	10. Field and Pool, BASIN DAKC	or Exploratory TA/BLANCO MESAVERDE	
4. Location of Well (Footage, Sec., T	, R., M., or Survey Description		<del></del>		11. County or Paris	h, and State	
Sec 27 T30N R9W Mer SWSE 36.46600 N Lat, 107.46000 W				SAN JUAN C	OUNTY, NM		
12. CHECK APPI	ROPRIATE BOX(ES) T	O INDICATE N	ATURE OF N	IOTICE, RI	EPORT, OR OTH	IER DATA	
TYPE OF SUBMISSION			TYPE OF	ACTION			
Notice of Intent     ■     Notice of Intent     Notice of	☐ Acidize	☐ Deeper	n	☐ Product	ion (Start/Resume)	☐ Water Shut-Off	
_	☐ Alter Casing	☐ Fractur	re Treat	☐ Reclam	ation	■ Well Integrity	
☐ Subsequent Report	□ Casing Repair	☐ New C	Construction	☐ Recomp	olete	APDCH	
☐ Final Abandonment Notice ☐ Change Plans		☐ Plug and Abandon ☐ Tempora			orarily Abandon		
	🗖 Plug B	ack	□ Water I	Disposal			
If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f  Application for Permit to Drill f on 06/06/2001. Application w amendments to our drilling an cementing program.  The subject well also requires for an exception to the Non-Si	rk will be performed or provide operations. If the operation reached on the provided operation reached on the subject well was seen as approved on 06/13/20 decompletion Program as a NMOCD approval for a candard well location was	e the Bond No. on fi sults in a multiple c led only after all req ubmitted on 03/2 01. Amoco Pro- s per the attache	le with BLM/BIA completion or reco uirements, includ 21/2001. Sunc duction Compa d two (2) docu	. Required su mpletion in a ing reclamation for the Basin for the Basin mpletion in a control of the Basin for the Basin ments.	bsequent reports shall new interval, a Form 3 n, have been complete f Location change fully submits for your emajor change is n Dakota completi	be filed within 30 days 160-4 shall be filed once ad, and the operator has  was submitted our approval in the casing and  on. A request	
14. Thereby certify that the foregoing is	Electronic Submission For AMOCO PRO Committed to AFMSS	DUCTION COMP	ANY, sent to th	e Farmingto	on _		
Name (Printed/Typed) MARY CO		. 4			ESENTATIVE		
Signature	TUIC 00 405 5		Date 06/18/20		0.5		
	THIS SPACE F	OK FEDERAL	UKSIAIE	OFFICE U			
Approved By	<b></b>	. <b>_</b>	Title	<u>.  </u>	Dat	7/3/01	
Conditions of approval, if any, are attached certify that the applicant holds legal or equivien would entitle the applicant to conditions.	uitable title to those rights in th		Office				

\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

IN LAND

# 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: June 18, 2001

Well No: 8M

Surface Location: 27-30N-9W, 730 FSL,2415 FEL

<6

Volume sufficient to maintain a stable and clean wellbore

Field: Blanco Mesaverde/Basin Dakota

Trill 450' below the base of the Greenborn Limestone, set 41/2" production coping. Stimulate LS, CU, ME, DL, and DK internal

OBJECTIVE: Drill 450' below the bas	se of the Greenhorn Lim	nestone, set 41/2	2" production casing,	, Stimulate L	S, CH, MF,	PL and DK i	ntervals	
METHOD OF	DRILLING		APPROXIMATI	E DEPTHS	OF GE	OLOGICAL	. MARK	ER
TYPE OF TOOLS	DEPTH OF DRILLI	NG	Estimated GI			Estimated I		}
Rotary	0 - TD	i	MARKER		SUE	BSEA	MEAS.	DEPTH
LOG PRO	GRAM	-	Ojo Alamo			4529		1321
TYPE	DEPTH INVERAL		Fruitland Coal	*		3851		1999
<u>OPEN HOLE</u>			Pictured Cliffs	*		3299		2551
GR-Induction	TD to 7" shoe		Lewis Shale	#		3171		2679
Density/Neutron	TD to 7" shoe		Cliff House	#		1686		4164
			Menefee Shale	#		1516		4334
CASED HOLE			Point Lookout	#		1101		4749
	TDT – TD to 7" shoe		Mancos			940		4910
CBL	ldentify 4 ½" cement	top	Greenhorn			-936		6786
			Bentonite Marke	r		-990		6840
REMARKS:			Two Wells	#		-1031		6881
<ul> <li>Please report any flares (magnitude)</li> </ul>	de & duration).		Dakota MB	#		-1180		7030
			Burro Canyon	*		-1327		7177
			Morrison	*		-1377		7227
			TOTAL DEPTH			-1377		7227
		# Probable completion interval * Possible Pay						
SPECIAL	TESTS		DRILL CUTTII	NG SAMP	LES	DRILI	LING TI	ME
TYPE			FREQUENCY	DEPTH	F	REQUENC	CY D	EPTH
None			10 feet	Production	n hole (	Geolograph	0	-TD
REMARKS:								
MUD PROGRAM:								
Approx. Interval	Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/	30 min	Other S	pecifica	ation

2779	-
7177	
REMARKS	

120-135

(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

8.6-9.2

8.6-9.2

9.0 - 9.2

(2) Mud up 50' above Morrison +/-.

120-135

2779

7177

7227

3 jts.

(1)

(2)

Spud

**LSND** 

Water/LSND

Gas/Air/N2/Mist

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	9 5/8"	H-40 ST&C	32#	12.25"	1
Intermediate 1	2779	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	7227	4 1/2"	J-55	11.6#	6.25"	3

### REMARKS:

- (1) Circulate Cement to Surface
- (2) Set casing 100' into Lewis Shale
- (3) Bring cement 100' above 7" 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:		
		June 11, 2001		
HGJ/MNP		Version 1.0		

**BOP Test Pressure** 

# **Amoco Production Company BOP Pressure Testing Requirements**

Well Name: E.E. Elliott B 8M

County: San Juan State: New Mexico

		Anticipated	Maximum Anticipated
Formation	TVD	Bottom Hole Pressure	Surface Pressure **
Ojo Alamo	1321		
Fruitland Coal	1999		
PC	2551		
Lewis Shale	2679		
Cliff House	4164	500	0
Menefee Shale	4334		
Point Lookout	4749	600	0
Mancos	4910		
Dakota	6881	2600	1520

<sup>\*\*</sup> Note: Determined using the following formula: ABHP - (.22\*TVD) = ASP

Requested BOP Pressure Test Exception: 3000 psi

Oldio.	TOW MONIOC				KB Elev (e	et)	5850	1		
					GL Elev. (6	,	5836			
					OL LICY. (1	331)	5050	,		
Casing Program					_					
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC		Stage Tool	Cmt Cir. Out		
0 0	(ft.)	(in.)	(in.)		(ft.)		Or TOL (ft.)	(bbl.)		
Surface	135	12.25	9.625	ST&C	Surface		NA	(/		
Intermediate	2770	8.75	7	LT&C	Surface		NA			
Production -	7227	6.25	4.5	?	2670		NA			
Casing Properti	es:	(No Safety F	actor Included)							
Casing String	Size	Weight	Grade	Burst	Collapse		Joint St.	Capacity	Drift	
	(in.)	(lb/ft)		(psi.)	(psi.)		(1000 lbs.)	(bbl/ft.)	(in.)	
Surface	9.62	25 32	2 H-40	3370	1	1400	254	0.0787		8.845
Intermediate		7 20	K-55	3740	)	2270	234	0.0405		6.456
Production -	4	.5 11.6	i J-55	5350	}	4960	154	0.0155		3.875
Mud Program									_	
Apx. Interval	Mud Type	Mud Weight		Recomm	ended Mud	Prope	rties Prio Ceme	enting:		
(ft.)				PV	<20					
				YP	<10					
0 - SCP	Water/Spud	8.6-9.2		Fluid Los	s<15					
SCP - ICP	Water/LSND	8.6-9.2								
ICP - ICP2	Gas/Air Mist	NA NA	_							
ICP2 - TD	LSND	8.6 - 9.2	<u>'</u>						-	
Cementing Progr	ram:		0 (					5		
E % B:4			Surface		Intermed	nate		Production		
Excess %, Bit			100%		80			10		
Excess %, Calip			NA 60		NA 120			30 160		
BHST (est deg. I	-)		60 NA	П	120			160		
Pipe Movement			NA 7	17	otate/Recip	rocate		Rotate/Recip	rocate	
Rate, Max (bpm)			6		4 4			2 2		
Rate Recommer			200		2000	1		2000		
Pressure, Max (p Shoe Joint	251)		40		80	,		40		
Batch Mix			NA		NA			NA		
Circulating prior	cmtna (hr)		0.5		1.5			2		
Time Between S			NA		NA			NA		
Special Instruction			1,6,7		1,6,8	۹		2,4,6		
Opeoiai instructio		pumps and line			1,0,0			2,4,0		
	2. Wash pumps									
	Reverse out									
	4. Run Blend T	est on Cement								
	5. Record Rate	, Pressure, and	Density on 3.5"	disk						
			ressurized mud							
			ent is not circula							
	8. If cement is	not circulated to	surface, run ter	np. survey	10-12 hr. af	ter lan	ding plug.			
Natari		<del></del>		<del></del>						
Notes:	*D= == += = !- :		v Maab lines be	fara diantes	ina neodiist	ian as	ment ich to ==i=	mizo drillout		
			g. Wash lines be to identify pay; F					mize amout.		
O. orfo	Kun Hvid C	aseu noie logs	o identity pay, F	criorating a	and Orribys	oan D	o ruit nyless.			
Surface:										

Field:

API No.

Well Flac

Formation:

Blanco Mesaverde / Basin Dakota

Dakota MesaVerde

Well Name:

Location:

County:

State:

E E Elliot B8M

San Juan

New Mexico

27-30N-9W, 730 FSL,2415 FEL

FreshWater

20 bbl.

Preflush

## **Cementing Program**

0.25 #/sk Cellophane Flake (lost circulation additive)

73 sx Class G Cement

0.1% D46 antifoam

+ 2% CaCl2 (accelerator)

Slurry 1 TOC@Surface 85 cuft

0.3132 cuft/ft OH 100 % excess

Water Slurry Properties: Density Yield (ft3/sk) (gal/sk) (lb/gal) 15.8 1.16 4.95 Slurry 1 9-5/8", 8R, ST&C Casing Equipment: 1 Guide Shoe 1 Top Wooden Plug 1 Autofill insert float valve 4 Centralizers 1 Stop Ring 1 Thread Lock Compound Intermediate: fresh water Fresh Water 20 bbl 207 sx Class "G" Cement 601 cuft Lead + 3% D79 extender Slurry 1 + 2% S1 Calcium Chloride TOC@Surface +1/4 #/sk. Cellophane Flake + 0.1% D46 antifoam' Tail 107 sx 50/50 Class "G"/Poz 135 cuft Slurry 2 + 2% gel (extender) 0.1503 cuft/ft OH 500 ft fill 0.1% D46 antifoam +1/4 #/sk. Cellophane Flake 0.1746 cuft/ft csg ann 80 % excess + 2% CaCl2 (accelerator) Water Slurry Properties: Density Yield (gal/sk) (lb/gal) (ft3/sk) 11.4 2.9 17.77 Slurry 1 5.72 13.5 1.27 Slurry 2 7", 8R, ST&C Casing Equipment: 1 Float Shoe (autofill with minimal LCM in mud) 1 Float Collar (autofill with minimal LCM in mud) 1 Stop Ring 10 Centralizers (one in middle of first joint, then every third collar) 2 Fluidmaster vane centalizers @ base of Ojo 7 Centalizers one every 4th joint from Ojo to base of surface casing 1 Top Rubber Plug 1 Thread Lock Compound Production: 10 bbl CW100 Fresh Water 139 LiteCrete D961 / D124 / D154 297 cuft Lead + 0.03 gps D47 antifoam Slurry 1 TOC@Surface + 0.5% D112 fluid loss 6/19/01 Page 2 Amoco

## **Cementing Program**

+ 0.11% D65 TIC

822 ft fill	+ 5% D20 gel (ex + 0.1% D46 antifo + 1/4 #/sk. Cellop + 0.25% D167 Flu	pam hane Flake	+ 5 #/sk D24 gilsonite + 0.15% D65 TIC + 0.1% D800 retarder
822 ft fill	+ 1/4 #/sk. Cellop	hane Flake	
			+ 0.1% D800 retarder
	+ 0.25% D167 Flu	iid Loss	
		aid Ecoc	
			0.1026 cuft/ft OH
Density	Yield	Water	10 % excess
(lb/gal)	(ft3/sk)	(gal/sk)	0.1169 cuft/ft csg ann
9.5	2.14	6.38	
13	1.44	6.5	Top of Mancos
			4905
4-1/2", 8R, ST&C			
1 Float Shoe (autof	fill with minimal LCM in mud)		
1 Float Collar (auto			
1 Stop Ring			
39 Centralizers (ev	ery third joint		
	(lb/gal) 9.5 13 4-1/2", 8R, ST&C 1 Float Shoe (autof 1 Float Collar (autof 1 Stop Ring	(lb/gal) (ft3/sk) 9.5 2.14 13 1.44  4-1/2", 8R, ST&C  1 Float Shoe (autofill with minimal LCM in mud) 1 Float Collar (autofill with minimal LCM in mud)	(Ib/gal) (ft3/sk) (gal/sk) 9.5 2.14 6.38 13 1.44 6.5  4-1/2", 8R, ST&C  1 Float Shoe (autofill with minimal LCM in mud) 1 Float Collar (autofill with minimal LCM in mud) 1 Stop Ring

#### Note:

1. The job should be pumped at 2-3 bpm max rate. Do not exceed 3 bpm on displacement

1 Top Rubber Plug1 Thread Lock Compound

2. Wash pump and lines before displacement. Slow to 1 bpm for the last 30 bbl of displacement.