

FORM 3160-3
(July 1992)SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)FORM APPROVED
OMB NO 1004-0136
Expires February 28, 1995UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF - 078116
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY P.O. BOX 3092 HOUSTON, TX 77019		7. UNIT AGREEMENT NAME 29065
3. ADDRESS AND TELEPHONE NO. MARY CORLEY AUTHORIZED REPRESENTATIVE PHONE: 281.366.4491 FAX: 281.366.0700 EMAIL: corleyml@am.com		8. FARM OR LEASE NAME, WELL NO. JANE MANSFIELD 1M
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At Surface 2490FNL AND 1745FEL SWNE SEC 19 T30N R9W At proposed prod. zone		9. API WELL NO. 30-045-30618
14. DISTANCE IN MILES AND DIRECTION FROM THE NEAREST TOWN OR POST OFFICE 10.5 MILES FROM AZTEC, NM		10. FIELD AND POOL, OR WILDCAT BASIN DAKOTA/BLANCO MESAVERDE
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. unit line, if any)		11. SEC., T., R., OR B.L.K. AND SURVEY OR AREA SECTION 19 T30N R9W MERIDIAN NMP
16. NO. ACRES IN LEASE 320.00		12. COUNTY OR PARISH SAN JUAN
17. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE FT.		13. STATE NM
18. PROPOSED DEPTH 7615 MD / TVD		19. NO. OF ACRES ASSIGNED TO THIS WELL 320.00
20. ROTARY OR CABLE TOOLS ROTARY		21. APPROX. DATE WORK WILL START 05/01/2001
22. ELEVATIONS (Show whether DP, RT, GK, etc.) 6243 GL		

Notice of Staking Submitted 12/07/2000 as Mansfield well #1B. Please change lease name and well number to Jane Mansfield 1M. Amoco Production Company respectfully request permission to drill the subject well to a total depth of approximately 7615', complete in the Basin Dakota Pool, produce the well for approximately 30 days to establish 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 appropriate 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).

procedural review pursuant to 43 CFR 3160.3
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 prevention program, if any.

24. ELECTRONIC SUBMISSION #3345 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
FOR AMOCO PRODUCTION COMPANY SENT TO THE FARMINGTON FIELD OFFICE
SIGNATURE: MARY CORLEY TITLE: AUTHORIZED REPRESENTATIVE DATE: 04/02/2001

PERMIT NO. _____

APPROVAL DATE: 11/7/01

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 thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY: _____

TITLE: _____

DATE: _____

NSL in Basin Dakota

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 30-045-30618		2 Pool Code 71599 & 72319		3 Pool Name BASIN DAKOTA & BLANCO MESAVERDE	
4 Property Code 29065		5 Property Name JANE Mansfield		6 Well Number 1M	
7 OGRID No. 000778		8 Operator Name AMOCO PRODUCTION COMPANY		9 Elevation 6243	

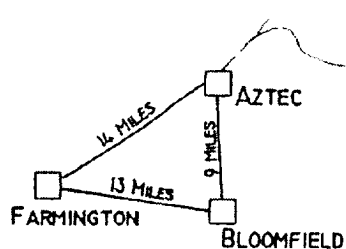
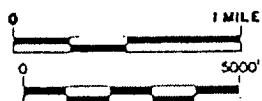
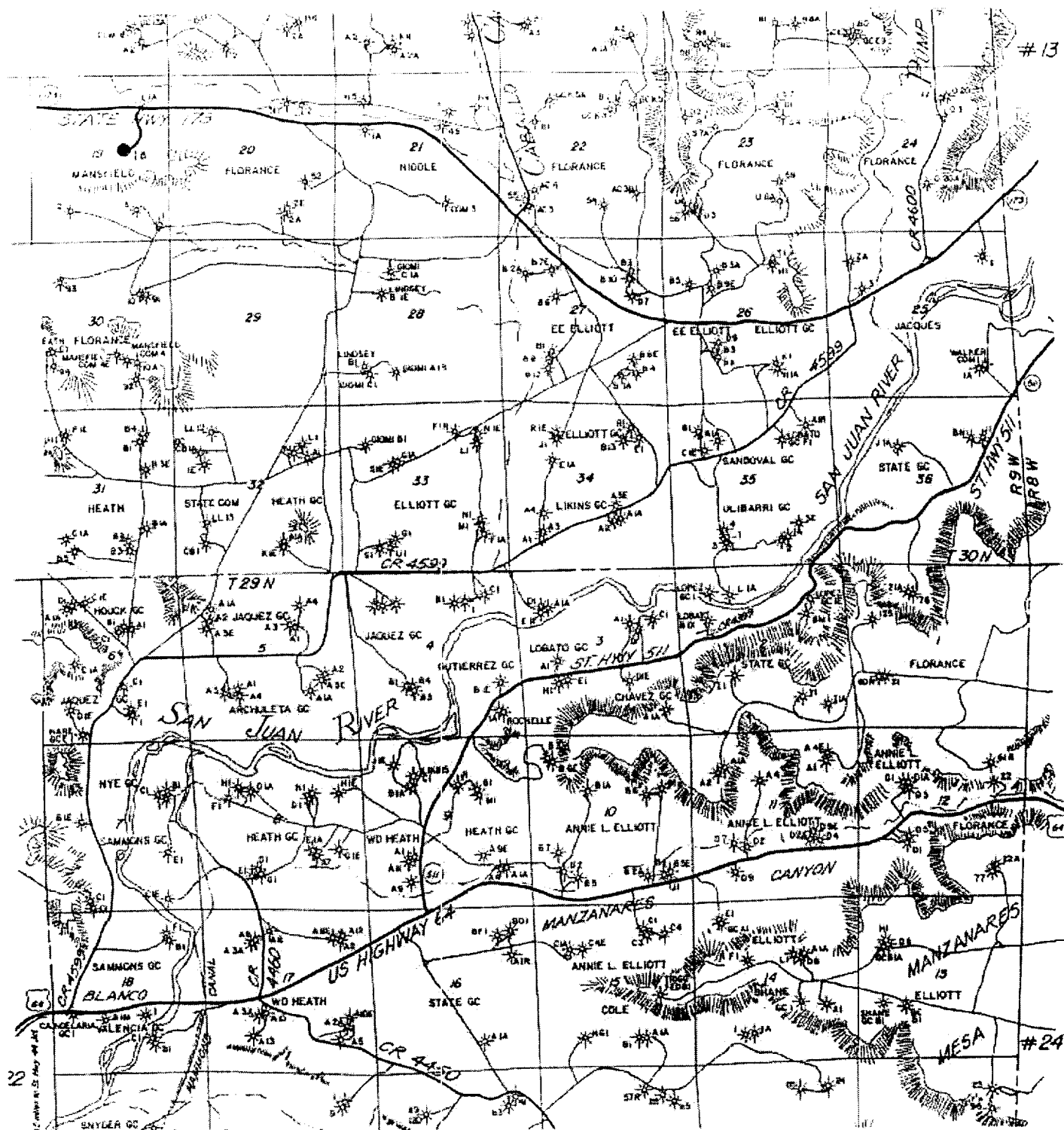
10 Surface Location							County	
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	East/West line	
G	19	30 N	9 W		2490	NORTH	1745	EAST
							SAN JUAN	

11 Bottom Hole Location If Different From Surface							County
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	East/West line
12 Dedicated Acres 320.00		13 Joint or Infill		14 Consolidation Code		15 Order No.	

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>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>Signature <u>Mary Corley</u></p> <p>Printed Name MARY CORLEY</p> <p>Title SR. REGULATORY ANALYST</p> <p>Date 4/2/2001</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>November 16, 2000</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>GARY D. VANN NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR 7016</p> <p>7016 Certificate Number</p>	

(R) - BLM Record



LAT: 36°47.8'
LONG: 107°49.1'

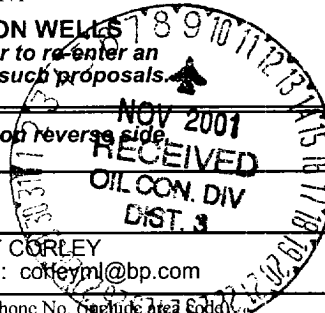
Jane AMOCO PRODUCTION COMPANY
Mansfield #1M
NE¼ Sec. 19, T30N, R9W, NMPM
RAIL POINT:
MUD POINT:
CEMENT POINT:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side



1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. SF - 078116
2. Name of Operator AMOCO PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name
3a. Address P.O. BOX 3092 HOUSTON, TX 77253		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (Include Area Code) Ph: 281.366.4494 Fax: 281.366.0700		8. Well Name and No. JANE MANSFIELD 1M
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T30N R9W Mer SWNE 2490FNL 1745FEL 36.47800 N Lat, 107.49100 W Lon		9. API Well No.
		10. Field and Pool, or Exploratory BASIN DAKOTA/BLANCO MESAVERDE
		11. County or Parish, and State SAN JUAN COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) 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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> APDCH
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Application for Permit to Drill for the subject well was submitted on 04/02/2001. Amoco Production Company respectfully submits for your approval amendments to our drilling and completion Program as per the attached two (2) documents. The major change is in the casing and cementing program.

The subject well also requires NMOCD approval for a Non-Standard drilling location for the Basin Dakota completion. A request for an exception to the Non-Standard well location is being submitted to the NMOCD under a separate application.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #5099 verified by the BLM Well Information System For AMOCO PRODUCTION COMPANY, sent to the Farmington Committed to AFMSS for processing by Maurice Johnson on 06/20/2001 ()	
Name (Printed/Typed) MARY CORLEY	Title AUTHORIZED REPRESENTATIVE
Signature	Date 06/19/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>/s/ Jim Lovato</u>	Title	Date <u>NOV - 7</u>
Conditions of approval, if any, are attached. Approval of this notice 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 thereon.		Office

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

NOV 2001

**AMOCO PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM**

Prospect Name: Jane Mansfield
Lease: JANE MANSFIELD
County: San Juan
State: New Mexico
Date: June 19, 2001

Well No: 1M
Surface Location: 19-30N-9W, 2490 FNL, 1745 FEL
Field: Blanco Mesaverde/Basin Dakota

OBJECTIVE: Drill 450' below the base of the Greenhorn Limestone, set 41/2" production casing, Stimulate LS, CH, MF, PL and DK intervals

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILL NG	Estimated GL: 6243		Estimated KB: 6257	
Rotary	0 - TD	MARKER		SUBSEA	MEAS. DEPTH
LOG PROGRAM TYPE <u>OPEN HOLE</u> GR-Induction TD to 7" shoe Density/Neutron TD to 7" shoe <u>CASED HOLE</u> GR-CCL-TDT TDT – TD to 7" shoe CBL Identify 4 ½" cement top REMARKS: - Please report any flares (magnitude & duration).		Ojo Alamo		4648	1610
		Fruitland Coal	*	3927	2331
		Pictured Cliffs	*	3335	2922
		Lewis Shale	#	3270	2987
		Cliff House	#	1716	4541
		Menefee Shale	#	1540	4717
		Point Lookout	#	1112	5145
		Mancos		990	5267
		Greenhorn		-904	7161
		Bentonite Marker		-958	7215
		Two Wells	#	-1000	7257
		Dakota MB	#	-1100	7357
		Burro Canyon	*	-1185	7442
		Morrison	*	-1235	7492
		TOTAL DEPTH		-1408	7665
		# Probable completion interval		* Possible Pay	
SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
		FREQUENCY DEPTH		FREQUENCY DEPTH	
None		10 feet	Production hole	Geolograph	0-TD
REMARKS:					

MUD PROGRAM:					
Approx. Interval	Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0 - 200	Spud	8.6-9.2			
200 - 3087 (1)	Water/LSND	8.6-9.2		<6	
3087 - 7442	Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore			
7442 - 7665 (2)	LSND	9.0-9.2		<6	

REMARKS:
 (1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.
 (2) Mud up 50' above Morrison +/-.

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	200	9 5/8"	H-40 ST&C	32#	12.25"	1 -
Intermediate 1	3087	7"	J/K-55 ST&C	20#	8.75"	1,2 -
Production	7665	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:
HGJ/KAT		May 8, 2001
Form 46 12-00 KAT		Version 4.0

Amoco Production Company
BOP Pressure Testing Requirements

Well Name: JANE MANSFIELD 1M

County: San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1610		
Fruitland Coal	2331		
PC	2922		
Lewis Shale	2987		
Cliff House	4541	500	0
Menefee Shale	4717		
Point Lookout	5145	600	0
Mancos	5267		
Dakota	7257	2600	1441

** 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.