

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. SF - 078106
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BP AMERICA PRODUCTION COMPANY		7. If Unit or CA Agreement, Name and No.
Contact: CHERRY HLAVA E-Mail: hlavacl@bp.com		8. Lease Name and Well No. GALLEGOS CANYON UNIT 582
3a. Address P.O. BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include area code) Ph: 281.366.4081 Fx: 281.363.0700	9. API Well No. 30-045-31017
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NWNW Lot D 980FNL 985FWL At proposed prod. zone		10. Field and Pool, or Exploratory KUTZ PICTURED CLIFFS, WEST
14. Distance in miles and direction from nearest town or post office* 20 MILES WEST FROM BLOOMFIELD, NM		11. Sec., T., R., M., or Blk. and Survey or Area D Sec 19 T28N R12W Mer NMP
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in Lease 43102.00	12. County or Parish SAN JUAN
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 1651 MD	13. State NM
21. Elevations (Show whether DF, KB, RT, GL, etc. 5693 GL <del>This action is subject to technical and procedural review pursuant to 43 CFR 3165.8 and appeal pursuant to 43 CFR 3165.4.</del>	22. Approximate date work will start	17. Spacing Unit dedicated to this well 152.66 NW/4
24. Attachments		23. Estimated duration

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) CHERRY HLAVA	Date 03/05/2002
Title AUTHORIZED REPRESENTATIVE		
Approved by (Signature) David J. Mankiewicz	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify 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, are attached.

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.

Additional Operator Remarks (see next page)

Electronic Submission #10357 verified by the BLM Well Information System  
For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

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

NMOCD

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

<sup>1</sup> API Number 30-045-31017	<sup>2</sup> Pool Code 79680	<sup>3</sup> Pool Name West Katz Pictured Cliffs
<sup>4</sup> Property Code 000570	<sup>5</sup> Property Name Gallegos Canyon Unit	<sup>6</sup> Well Number # 582
<sup>7</sup> OGRID No. 000778	<sup>8</sup> Operator Name BP AMERICA PRODUCTION COMPANY	<sup>9</sup> Elevation 5693

<sup>10</sup> Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D (Lot 1)	19	28 N	12 W		980	NORTH	985	WEST	SAN JUAN

<sup>11</sup> Bottom Hole Location. If Different From Surface

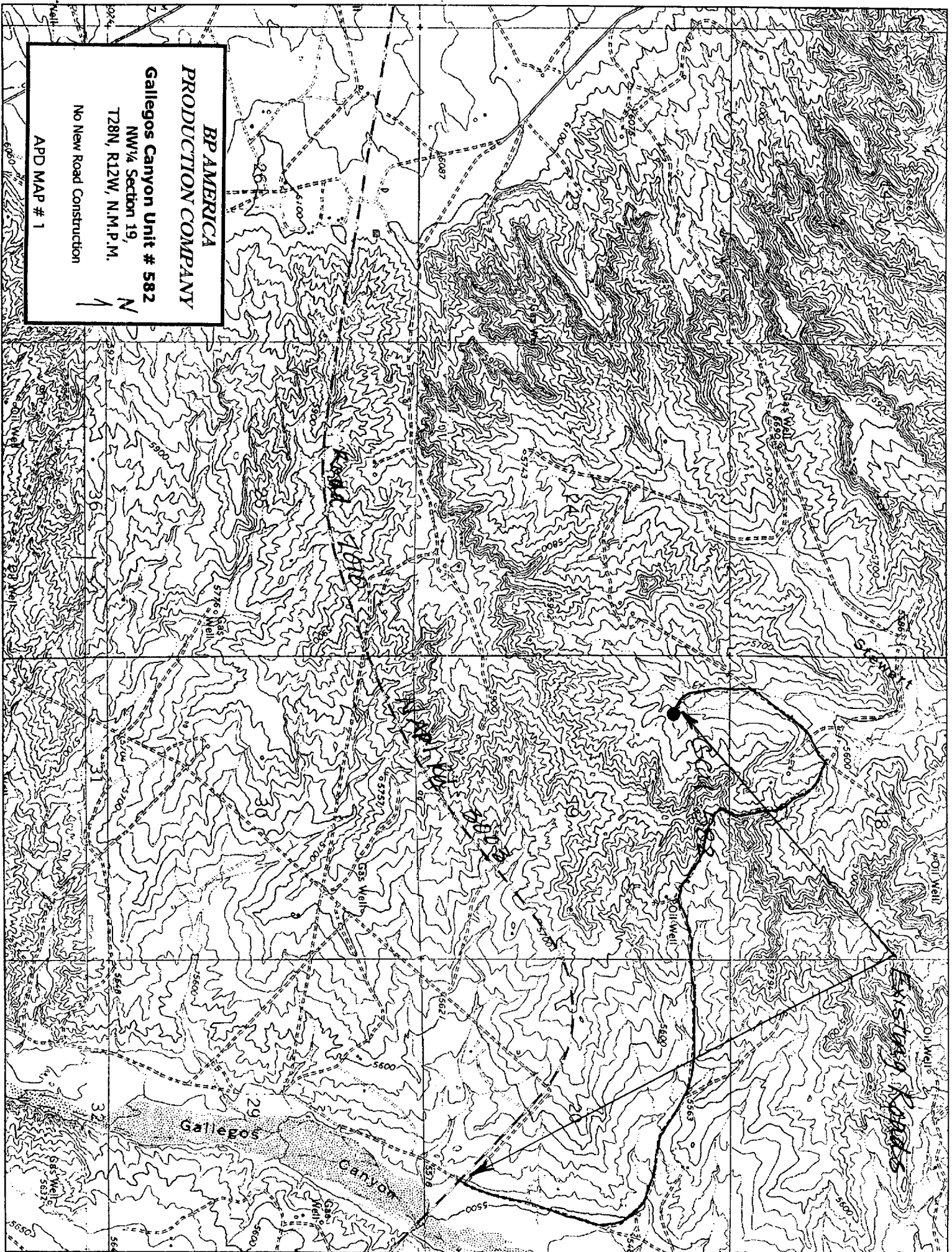
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres 152.66	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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

<sup>16</sup> 	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature <u>Cherry Alava</u> Printed Name <u>Cherry Alava</u> Title <u>Regulatory Analyst</u> Date <u>2-12-02</u>
	<sup>18</sup> 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.  Date of Survey <u>January 21, 2002</u> Signature and Seal of Professional Surveyor 
	Certificate Number <u>7016</u>

**BP AMERICA**  
**PRODUCTION COMPANY**  
**Gallegos Canyon Unit # 582**  
NW 1/4, Section 19,  
T28N, R12W, N.M.P.M.  
No New Road Construction  
APD MAP # 1



**BP AMERICA PRODUCTION COMPANY  
DRILLING AND COMPLETION PROGRAM**

**Prospect Name:** GCU 582  
**Lease:** GALLEGOS CANYON UNIT  
**County:** San Juan  
**State:** New Mexico  
**Date:** February 22, 2002

**Well No:** 582  
**Surface Location:** 980' FNL & 985' FWL  
 Sec. 19, 28N-12W  
**Field:** West Kutz Pictured Cliffs

**OBJECTIVE:** Drill 200' into the Pictured Cliffs, set 4 1/2" casing to TD, perf & stimulate Pictured Cliffs interval

<b>METHOD OF DRILLING</b> TYPE OF TOOLS DEPTH OF DRILLING Rotary/Top Drive 0 - TD		<b>APPROXIMATE DEPTHS OF GEOLOGICAL MARKER</b> Estimated GL: 5693 Estimated KB: 5704			
		MARKER Ojo Alamo Kirtland Fruitland Coal Pictured Cliffs	* * #	SUBSEA 5478 5400 4218 4253	MEAS. DEPTH 226 304 1486 1451
<b>LOG PROGRAM</b> TYPE DEPTH INVERAL Open Hole (Platform Express) TD to base of surface casing		TOTAL DEPTH 4053 1651 # Completion interval * Possible Pay			
<b>REMARKS:</b> - Please report any flares (magnitude & duration).					
<b>SPECIAL TESTS</b> TYPE None		<b>DRILL CUTTING SAMPLES</b> FREQUENCY DEPTH None		<b>DRILLING TIME</b> FREQUENCY DEPTH Geolograph 0-TD	
<b>REMARKS:</b>					

<b>MUD PROGRAM:</b>						
<b>Approx. Interval</b>	<b>Type Mud</b>	<b>Weight, #/gal</b>	<b>Vis, sec/qt</b>	<b>W/L cc's/30 min</b>	<b>Other Specification</b>	
0 - 120-135 3 jts.	Spud	8.6-9.2				
120-135 - TD (1)	Water/LSND	8.6-9.2				

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

<b>CASING PROGRAM:</b> (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)						
<b>Casing String</b>	<b>Estimated Depth</b>	<b>Casing Size</b>	<b>Grade</b>	<b>Weight</b>	<b>Hole Size</b>	<b>Landing Point, Cement, Etc.</b>
Surface/Conductor	120-135	7"	J 55 ST&C	23#	8.75"	1
Production	1651	4 1/2"	J 55 ST&C	10.5#	6.25"	1,2

**REMARKS:**  
 (1) Circulate Cement to Surface  
 (2) Set casing 200' below top of Pictured Cliffs

**CORING PROGRAM:**  
 None

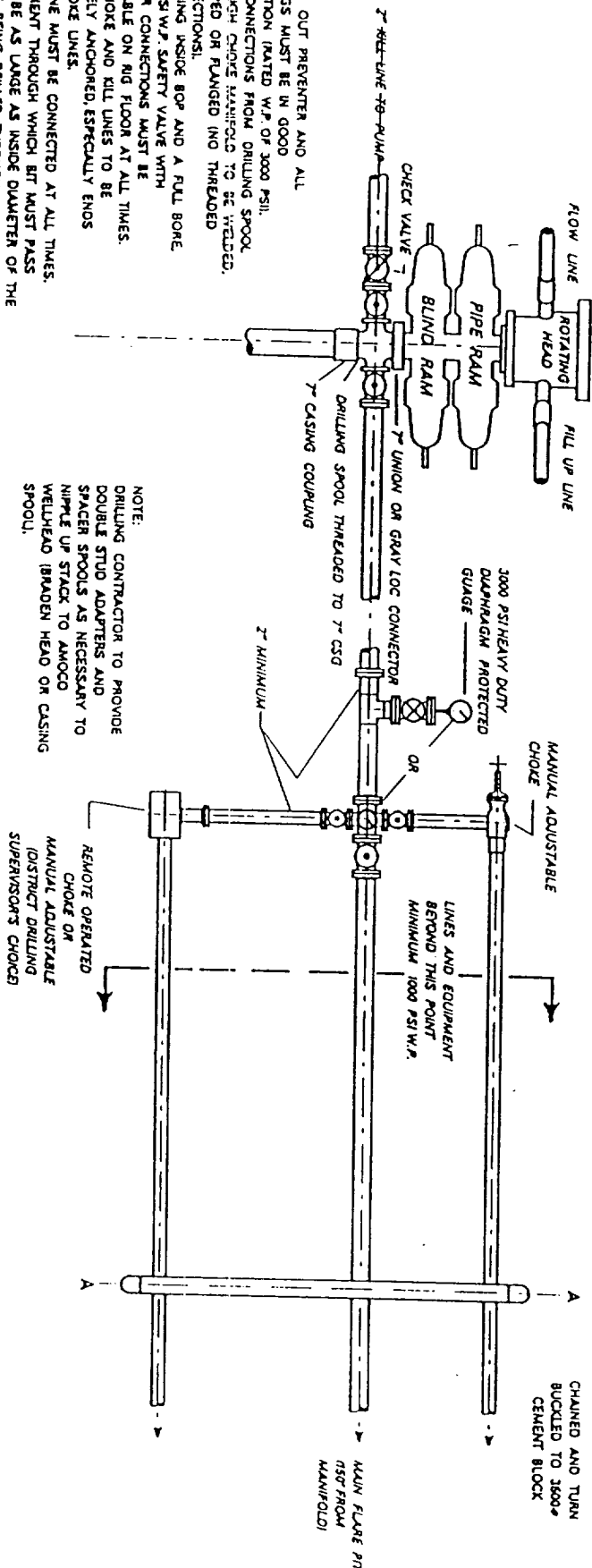
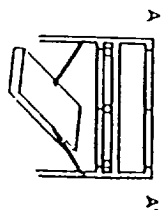
**COMPLETION PROGRAM:**  
 Rigless, Single Stage Hydraulic Frac

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

Form 46 Reviewed by: \_\_\_\_\_ Logging program reviewed by: DLJ

<b>PREPARED BY:</b>	<b>APPROVED:</b>	<b>DATE:</b>
KAS/JLP		
Form 46		

# MINIMUM BLOW-OUT PREVENTER REQUIREMENTS $\frac{7}{8}$ " OR 1" (NOMINAL) 3,000 PSI W.P. Typical Dakota / Mesaverde Air / Mud (SRBU)



- NOTE:
1. BLOW-OUT PREVENTER AND ALL FITTINGS MUST BE IN GOOD CONDITION (RATED W.P. OF 3000 PSI).
  2. ALL CONNECTIONS FROM DRILLING SPOOL, THROUGH CHOKE MANIFOLD TO BE WELDED, CLAMPED OR FLANGED (NO THREADED CONNECTIONS).
  3. A STRING INSIDE BOP AND A FULL BORE 3000 PSI W.P. SAFETY VALVE WITH PROPER CONNECTIONS MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES.
  4. ALL CHOKE AND KILL LINES TO BE SECURELY ANCHORED, ESPECIALLY ENDS OF CHOKE LINES.
  5. KILL LINE MUST BE CONNECTED AT ALL TIMES.
  6. EQUIPMENT THROUGH WHICH BRT MUST PASS SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH.
  7. MUST HAVE UPPER AND LOWER KELLY COCK ON KELLY.
  8. BLOW-OUT PREVENTER CLOSING EQUIPMENT SHALL HAVE SUFFICIENT CAPACITY TO FULFILL REQUIREMENTS OF CURRENT FEDERAL REGISTAR (43 CFR) DATED NOV. 1984.
  9. NO COLLECTOR BOTTLES, SURGE TANKS OR BUFFER CHAMBERS DOWNSTREAM OF THE CHOKE MANIFOLD.
  10. ALL TURNS TO BE MADE WITH TARGETED TEES (18-24" MIN.) NO BENDS OR SWEEPS IN LINE FROM BOP TO CHOKE MANIFOLD.
  11. IF A FLEXIBLE HOSE IS TO BE USED AS A CHOKE LINE, IT MUST BE APPROVED BY AMOCO PRIOR TO RIGGING UP.
  12. LOCK TO BE INSTALLED ON BLIND RAM CONTROL.

- NOTE:
- DRILLING CONTRACTOR TO PROVIDE DOUBLE STUD ADAPTERS AND SPACER SPOOLS AS NECESSARY TO NIPPLE UP STACK TO AMOCO WELHEAD (BRADEN HEAD OR CASING SPOOL).

- NOTE:
1. ALL UNMARKED VALVES TO BE FULL-OPENING GATE OR PLUG VALVES, METAL TO METAL SEAL, 3000 PSI W.P.

- NOTE:
1. CHOKE ASSEMBLY VERTICAL FOR ILLUSTRATION ONLY. SHOULD BE HORIZONTAL ON RIG. ANCHOR ALL LINES SECURELY EVERY 30' AND WITHIN 5' OF END OF LINE.
  2. DRILLING CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING ALL LINES AND VALVES.