Form 3160-3
(August 1999)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMSF 078883

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
CANYON LARGO UNIT 32660

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

8. Lease Name and Well No.
CANYON LARGO UNIT 454

2. Name of Operator
HUNTINGTON ENERGY, L.L.C. 208706
Contact: CATHY SMITH
E-Mail: csmith@huntingtonenergy.com

9. API Well No.
30-039-27745

3a. Address
6301 WATERFORD BLVD., SUITE 400
OKLAHOMA CITY, OK 73118

3b. Phone No. (include area code)
Ph: 405.840.9876 Ext: 0
Fx: 405.840.2011

10. Field and Pool, or Exploratory
BASIN DAKOTA

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface NWNW Lot D Tract 25 1195FNL 1020FWL

At proposed prod. zone NWNW Lot D Tract 25 1195FNL 1020FWL

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 5 T25N R6W Mer NMP

14. Distance in miles and direction from nearest town or post office*
34 MILES SE OF BLANCO, NM

12. County or Parish
RIO ARRIBA

13. State
NM

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
320.00

17. Spacing Unit dedicated to this well
322.4 W/2

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.

19. Proposed Depth
7500 MD

20. BLM/BIA Bond No. on file
NMB000076

21. Elevations (Show whether DF, KB, RT, GL, etc.
6747 GL

22. Approximate date work will start
09/01/2004

23. Estimated duration

24. Attachments

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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature
(Electronic Submission)

Name (Printed/Typed)
CATHY SMITH

Date
05/17/2004

Title
GENERAL CONTACT

Approved by (Signature)
/s/ Manuel Montoya

Name (Printed/Typed)

Date
7-6-04

Title
AFM

Office
FFO

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 #30731 verified by the BLM Well Information System
For HUNTINGTON ENERGY, L.L.C., sent to the Farmington

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

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

NMOCD

:625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
:301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised June 10, 20(
Submit to Appropriate District Offic
State Lease – 4 Copi(
Fee Lease – 3 Copi(

☐ AMENDED REPOR

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039-27745	71599	Basin Dakota

[4] Property Code	[5] Property Name	[6] Well Number
32660	CANYON LARGO UNIT	454

[7] OGRID No.	[8] Operator Name	[9] Elevation
208706	BURLINGTON RESOURCES OIL AND GAS COMPANY LP	6747'

[10] Surface Location

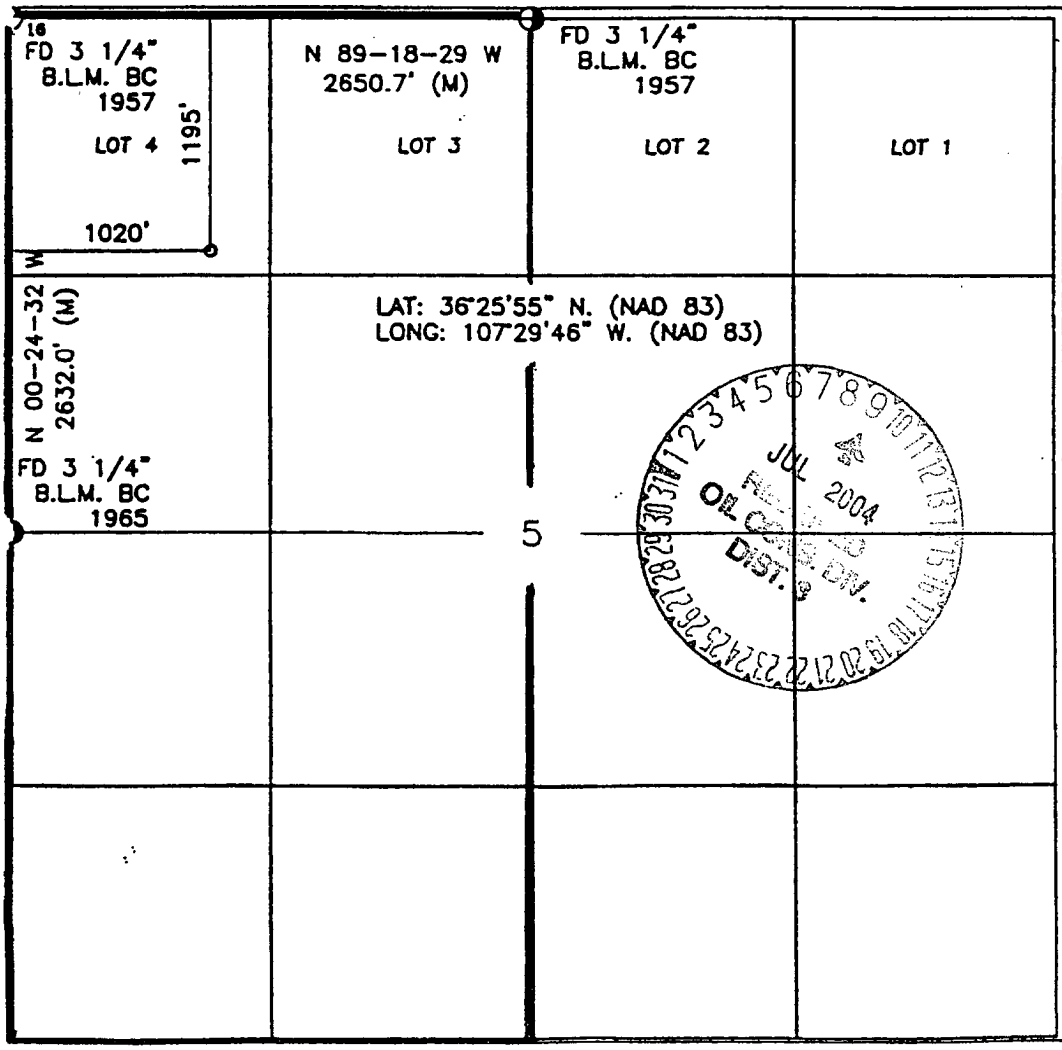
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	5	25-N	6-W		1195	NORTH	1020	WEST	RIO ARRIBA

[11] 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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
322.4			

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

Catherine Smith
Signature

Catherine Smith
Printed Name

Land Assoc.
Title

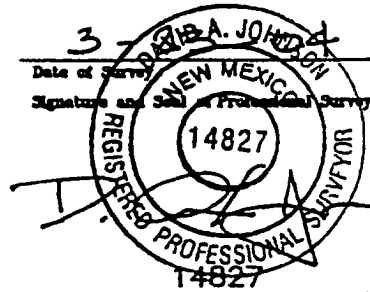
4-6-04
Date

[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.

3
Date of Survey

Signature and Seal of Professional Surveyor:



14827
Certificate Number

OPERATIONS PLAN

Well Name: **Canyon Largo Unit #454**
Location: 1195' FNL, 1020' FWL, NW/4 Sec 5, T-25-N, R-6-W NMPM
Rio Arriba County, NM
Formation: Basin Dakota
Elevation: 6747' GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	2153'	
Ojo Alamo	2153'	2346'	aquifer
Kirkland	2346'	2521'	gas
Fruitland	2521'	2782'	gas
Pictured Cliffs	2782'	2894'	gas
Lewis	2894'	3212'	gas
Huerfanito Bentonite	3212'	3675'	gas
Chacra	3675'	4430'	gas
Massive Cliff House	4430'	4469'	gas
Menefee	4469'	5062'	gas
Menefee Point Lookout	5062'	5285'	gas
Mancos	5285'	6220'	gas
Gallup	6220'	6991'	gas
Greenhorn	6991'	7055'	gas
Graneros	7055'	7102'	gas
Dakota	7102'	7415'	gas
Morrison	7415'		gas
TD	7500'		

Logging Program:

Open hole – Neutron-Density, Microlog – TD to minimum operations depth, DIL-GR – TD to surface
Cased hole – CBL-CCL-GR – TD to surface
Cores – none
Mud log – TD to 6000'

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0 – 320'	Spud	8.4-8.9	40-50	no control
320 - 7500'	LSND	8.4-9.0	40-60	8-12

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program:

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 ¼"	0' – 320'	8 5/8"	24.0#	WC-50
7 7/8"	0' – 7500'	4 ½"	11.6#	N-80

Tubing Program:

	0' – 7500'	2 3/8"	4.7#	J-55

BOP Specifications, Wellhead and Tests:

Surface to TD –

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

Completion Operations:

6" 3000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams and casing top will be tested to 3000 psi for 15 minutes.

Surface to Total Depth:

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

Wellhead:

8 5/8" x 4 ½" x 1 ½" x 1 ½" x 3000 psi tree assembly.

General:

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper Kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- A BOP pit level drill will be conducted weekly for each drilling crew.
- All of the BOP tests and drills will be recorded in the daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

8 5/8" surface casing –

Cement to surface w/336 sx Class "B" cement w/3% calcium chloride and ¼#/sx cellophane flakes (396 cu. ft. of slurry, 200% excess to circulate to surface.) WOC 8 hr. prior to drilling out surface casing. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

Production Casing – 4 ½"

Lead with 800 sx 9.5 ppg Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/407 sx Class "G" cement w/3% gel, 0.25 pps Celloflake, 5 pps Gilsonite, 0.25 pps fluid loss, 0.15% dispersant, 0.1% retardant, 0.1% antifoam (Slurry volume: 2603 cu. ft. Excess slurry 50%).

Alternate Two-stage cement job as follows:

First Stage: Cement to circulate to stage tool @ 5066'. Lead with 700 sx Class "G" 50/50 poz (13#, 1.47 yd) w/3% gel, 0.25 pps Celloflake, 5 pps Gilsonite, 0.25 pps Fluid loss, 0.15% dispersant, 0.1% retarder. WOC 4 hours prior to pumping second stage. (Slurry volume: 1029 cu. ft. Excess slurry: 50%). DV Tool at 5000 ft.

Second Stage: Cement to circulate to surface. Cement with 670 sx Class "G" (12#, 2.9yd) TXI Liteweight cement w/2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Celloflake, 0.2% antifoam. WOC a minimum of 18 hours prior to cleanout. (Slurry volume: 1914 cu. ft. Excess slurry: 50%). Tail w/50 sx Class "B" w/1/4# Flocele (15.6#, 1.18yd), (Slurry 59 cu ft, Excess 50%).

Float shoe on bottom. Three centralizers run every other joint above shoe. Thirty-five centralizers – one every 4th joint to the base of the Ojo Alamo @ 2448'. Two turbolizing type centralizers – one below and one into the base of the Ojo Alamo @ 2448'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

SLURRY COMPOSITION **#1**

Tuned Light	#/sk	100.00
CFR-3	% bwc	0.60
Halad 344	% bwc	0.30
D-Air 3000	% bwc	0.30
EZ-Flo	% bwc	0.20
HR-5	% bwc	0.20
Lab Tap Water	gal/sk	8.01
DOWNHOLE		
Slurry Weight	#/gal	10.00
Slurry Volume	ft3/sk	2.25
SURFACE		
Slurry Weight	#/gal	9.24
Slurry Volume	ft3/sk	2.44

THICKENING TIME TEST *

Initial Viscosity:	23 Bc
Final Temperature:	130 F
Final Pressure:	5100 psi
Time to Temperature:	0:42
Time to 70 Bc:	3:04

FLUID LOSS TEST

73 cc/30 minutes at 130 F

OPERATING FREE WATER TEST

0.0% at no angle at 130 F
no settling

RHEOLOGY TEST

RPM	surf.	130 F
600	220	300
300	160	200
200	108	150
100	62	82

MARCH FUNNEL TEST

5.96 minutes/1000 ml

BP SETTLING TEST

Pressure:	5100 psi
Temperature:	160 F
(Average of 3 tubes)	
Density at top:	9.83 #/gal
Density at middle:	9.95 #/gal
Density at bottom:	10.38 #/gal

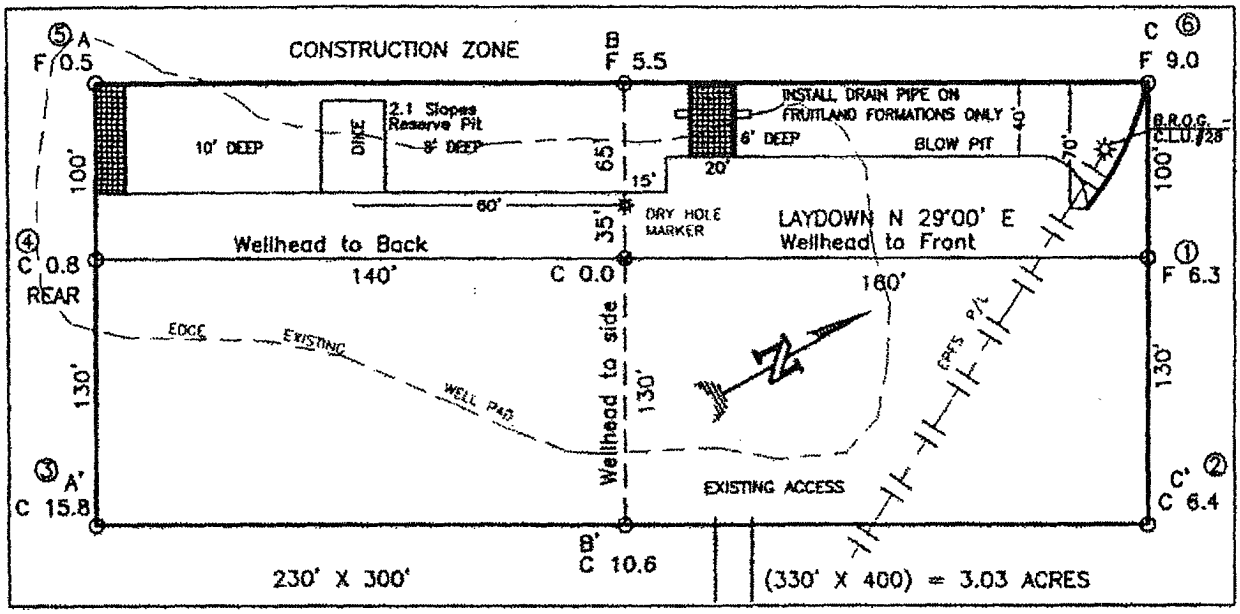
API COMPRESSIVE STRENGTH TEST

Pressure:	3000 psi
Temperature:	160 F

1923 psi in 24 hours

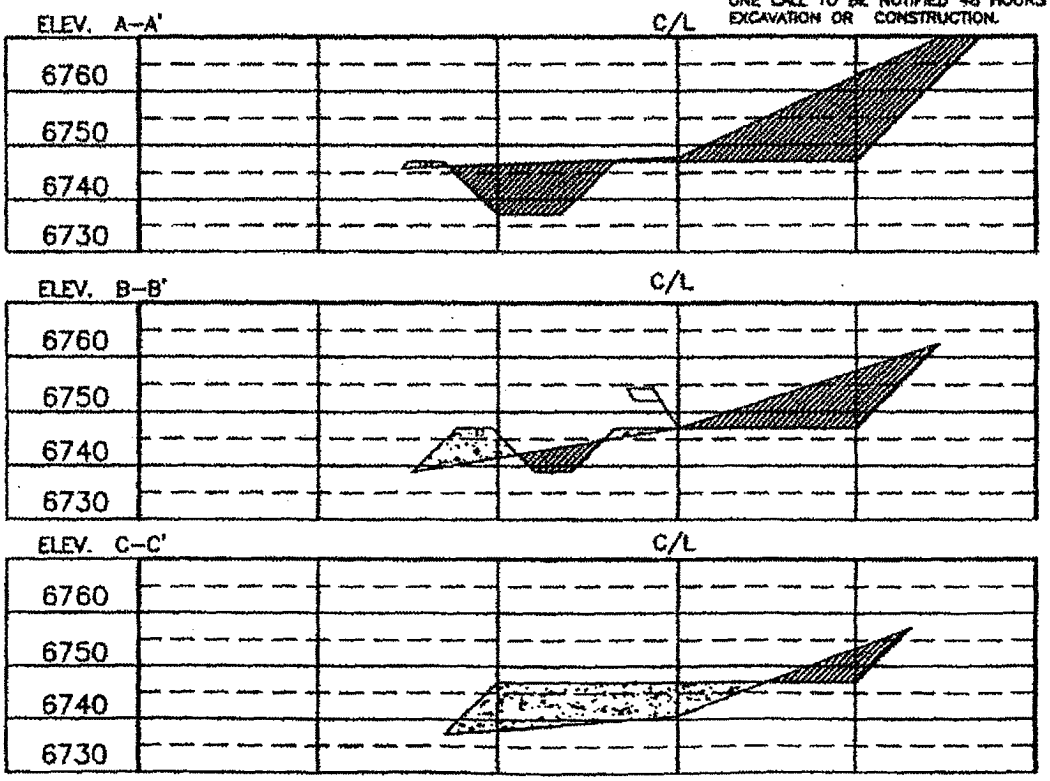
* Slurry was exposed to pressure to crush Spherelite prior to testing.

HUNTINGTON ENERGY, LLC
CANYON LARGO UNIT 454, 1195 FNL 1020 FWL
SECTION 5, T-25-N, R-6-W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6747, DATE: FEBRUARY 23, 2004



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

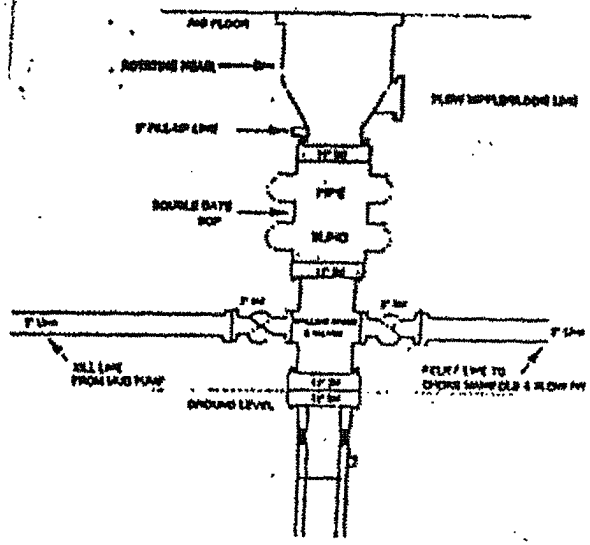
NOTE:
DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.



NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

Daggett Enterprises, Inc.
Surveying and Oil Field Services
P. O. Box 15068 - Farmington, NM 87401
Phone (505) 326-1772 - Fax (505) 326-6019
NEW MEXICO L.S. No. 14827
DRAWN BY: B.L.
JOB # HT0907
DISK: HT0907CFB
DATE: 03/05/04
REVISED:

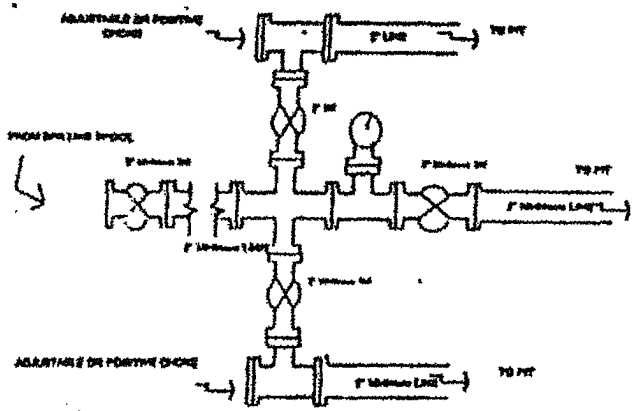
Drilling Rig
3000 psi System



BOP Installation from Surface Casing Point to Total Depth. 11" Bore 10" Nominal, 3000 psi working pressure double gate BOP to be equipped with blind rams and pipe rams. A 3000 psi rotating head on top of ram preventers. All BOP equipment is 3,000 psi working pressure

Figure #1

Drilling Rig
Choke Manifold Configuration
3000 psi System

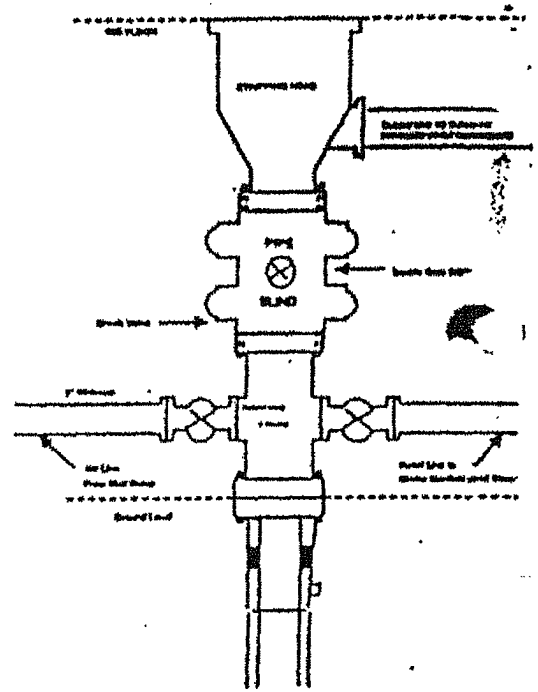


Choke manifold installation from Surface Casing Point to Total Depth. 3,000psi working pressure equipment with two chokes.

Figure #2

4-16-01

Completion/Workover Rig
BOP Configuration
3,000 psi System



Minimum BOP Installation for all Completion/Workover Operations. 7-1/16" bore, 3000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 3000 psi working pressure or greater excluding 800 psi stripping

Figure #3