

2006 MAY 18 6PM 8 43

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

070 FARMINGT

5. Lease Serial No. NM-61

6. If Indian, Allottee or Tribe Name

7 If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
George Washington #91

9. API Well No. 30-045-33751

10. Field and Pool, or Exploratory
Basin Fruitland Coal

11. Sec., T. R. M. or Blk. and Survey or Area
E Sec. 35, T26N, R12W
NMPM

12. County or Parish
San Juan

13. State	NM
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15. Distance from proposed*
location to nearest
property or lease line, ft. 660 Feet
(Also to nearest drig. unit line, if any)

16. No. of acres in lease
1120 Acres

17. Spacing Unit dedicated to this well
W/2-320 Acres

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. Approx. 1400'

19. Proposed Depth
1435'

20. BLM/BIA Bond No. on file
NM0140

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
GL - 6264'

22. Approximate date work will start*
ASAP

23. Estimated duration
5-Days

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 <i>Kurt Fagrellius</i>	Name (Printed/Typed) Kurt Fagrellius	Date May 18, 2006
Title Geology		

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed)	Date <i>8/28/07</i>
Title <i>AFM</i>	Office <i>FEO</i>	

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, 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.

*(Instructions on page 2)

A water based gel-mud will be used to drill surface and production casing hole. Standard 2,000 psi BOP will be used to drill production hole. The Fruitland Coal will be completed from approximately 1260' - 1280'. The interval will be fracture stimulated.

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

NMOC

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

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

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

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

RCVD AUG 30 '07
2006 MAY 18 AM 8:43
AMENDED REPORT
OIL CONS. DIV.

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT NM DIST. 3

*API Number 30-045-3395		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 3867	*Property Name GEORGE WASHINGTON		*Well Number 91
*GRID No 006515	*Operator Name DUGAN PRODUCTION CORPORATION		*Elevation 6264'

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
E	35	26N	12W		2300	NORTH	660	WEST	SAN JUAN

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 320.0 Acres - (W/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

<p>5277.36'</p> <p>2300'</p> <p>660'</p> <p>LAT: 36 44562 'N LONG: 108 08768 'W DATUM: NAD1983</p> <p>35</p> <p>5280.00'</p> <p>2640.00'</p> <p>DUGAN NM-61</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><i>Kurt Fagrelus</i> Signature</p> <p>Kurt Fagrelus Printed Name</p> <p>Geology Title</p> <p>May 18, 2006 Date</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>Date of Survey: MAY 1, 2006</p> <p>Signature and Seal of Professional Surveyor</p> <p> JASON C. EDWARDS Certificate Number 15269</p>

Submit 3 Copies To Appropriate District
Office
District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Ave, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S St. Francis Dr, Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.	30-045-33751
5. Indicate Type of Lease	Federal <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	Federal NM-61
7. Lease Name or Unit Agreement Name	George Washington
8. Well Number	91
9. OGRID Number	006515
10. Pool name or Wildcat	Basin Fruitland Coal
11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL-6264'	
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> For Closure <input type="checkbox"/>	
Pit type <u>Drilling</u> Depth to Groundwater <u>+100'</u> Distance from nearest fresh water well <u>+1000'</u> Distance from nearest surface water <u>+200'</u>	
Pit Liner Thickness: <u>12</u> mil	Below-Grade Tank: Volume _____ bbls; Construction Material <u>synthetic</u>

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

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

2. Name of Operator Dugan Production Corp.

3. Address of Operator 709 East Murray Drive, Farmington, NM

4. Well Location
Unit Letter E : 2300' feet from the north line and 660 feet from the west line
Section 35 Township 26N Range 12W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
GL-6264'

Pit or Below-grade Tank Application ☒ For Closure ☐

Pit type Drilling Depth to Groundwater +100' Distance from nearest fresh water well +1000' Distance from nearest surface water +200'

Pit Liner Thickness: 12 mil Below-Grade Tank: Volume _____ bbls; Construction Material synthetic

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <u>Reserve pit for drilling (lined)</u> <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

A water based gel-mud will be used to drill surface and production casing hole. Standard 2,000 psi BOP will be used to drill production hole. The Fruitland Coal will be completed from approximately 1260' - 1280'. The interval will be fracture stimulated.

RCVD AUG 30 '07
OIL CONS. DIV.

DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Kurt Fagrelius TITLE Geology DATE May 18, 2006
Type or print name Kurt Fagrelius E-mail address: kfagrelius@duganproduction.com Telephone No. 505-325-1821
For State Use Only Deputy Oil & Gas Inspector, District #3
APPROVED BY: [Signature] TITLE _____ DATE SEP 04 2007
Conditions of Approval (if any): _____

EXHIBIT B
OPERATIONS PLAN
George Washington #91

APPROXIMATE FORMATION TOPS:

Ojo Alamo	260'		
Kirtland	385'	Pictured Cliffs	1285'
Fruitland	940'	Total Depth	1435'

Catch samples every 10 feet from 1150 feet to 1435 feet.

LOGGING PROGRAM:

Run cased-hole GR-CCL-CNL from total depth to surface.

CASING PROGRAM:

Hole Size	Casing Size	Wt./ft.	Setting Depth	Grade and Condition
12-1/4"	8-5/8"	24#	120'	J-55
7"	5-1/2"	14#	1435'	J-55

Plan to drill a 12-1/4" hole and set 120' of 8-5/8" OD, 24#, J-55 surface casing. Then plan to drill a 7" hole to total depth with gel-water mud program to test the Fruitland Coal. 5-1/2", 14#, J-55 production casing will be run and cemented. Cased hole GR-CCL-CNL log will be run. Productive zone will be perforated and fractured. After frac, the well will be cleaned out and production equipment will be installed.

CEMENTING PROGRAM:

Surface: Cement to surface with 70 cf Class B + 2% CaCl₂.
Circulate to surface.

Production Stage-Cement with 120 cf 2%Lodense with
1/4# celloflake/sx followed by 100 cf Class "B" with
1/4# celloflake/sx.
Total cement slurry for production stage is 220 cf.
Circulate cement to surface.

An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement. An adequate number of casing centralizers will be run through usable water zones to ensure that casing is centralized through these zones. The adequate number of centralizers will be determined based on API standards. Centralizers to impart a swirling action around the casing will be used just below and into the base of the lowest usable water zone. These devices will assist mud

displacement, increase cement bonding potential and create an effective hydraulic seal. A chronological log will be kept which records the pump rate, pump pressure, slurry density, and slurry volume for the cement job. The log will be sent to the BLM after completion of the job.

WELLHEAD EQUIPMENT:

Huber 8-5/8"x5-1/2" casing head, 1000# WP, tested to 2000#.
Huber 5-1/2"x2-7/8" tubing head, 1000# WP, tested to 2000#.

BOP and Related Equipment will include for a 2000 psi system:

(Exhibit D)

Annular preventer, double ram, or 2 rams with one being blind and one being a pipe ram.

Kill line (2" minimum)

1 kill line valve (2" minimum)

1 choke line valve

2 chokes

Upper kelly cock valve with handle available

Safety valve and subs to fit all drill string connections in use.

Pressure gauge on choke manifold.

2" minimum choke line.

Fill-up line.

Contacts:

Dugan Prod.Corp. Office & Radio Dispatch: 325-1821

Mark Brown	327-3632 (H)
	320-8247 (M)

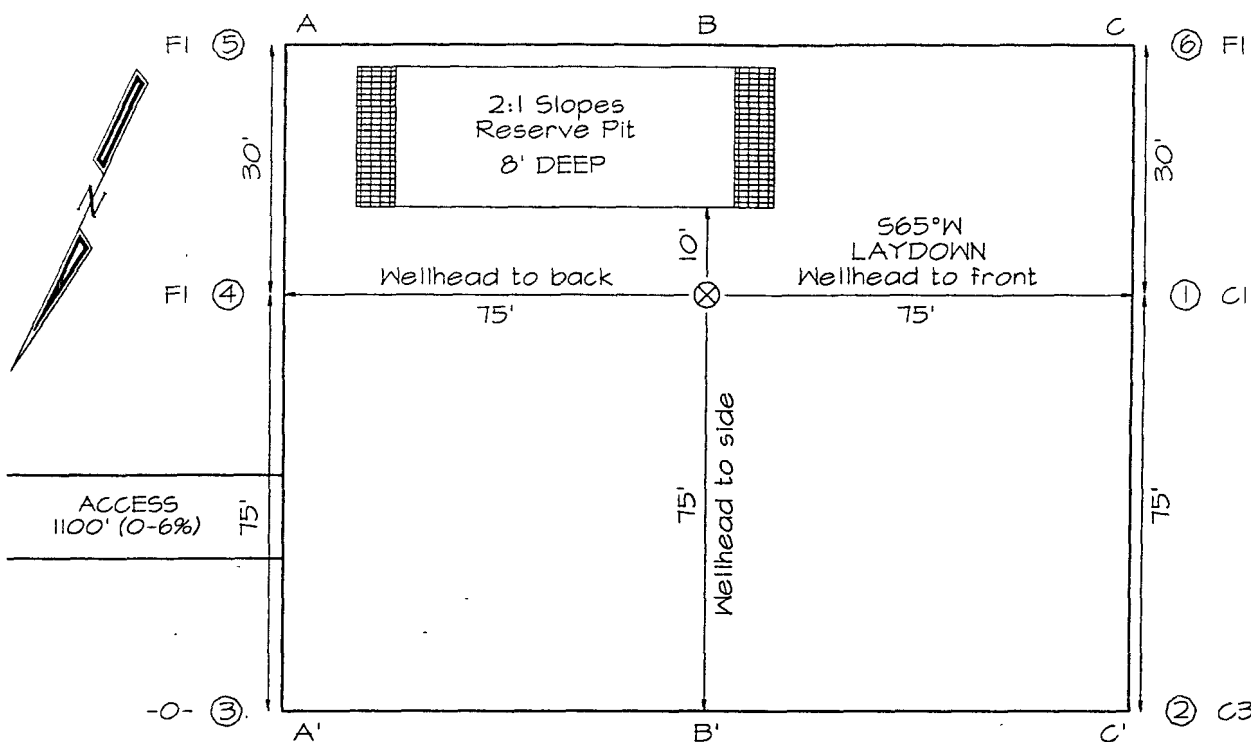
Kurt Fagrelus	325-4327 (H)
	320-8248 (M)

John Alexander	325-6927 (H)
	320-1935 (M)

DUGAN PRODUCTION CORPORATION GEORGE WASHINGTON #91
 2300' FNL & 660' FWL, SECTION 35, T26N, R12W, NMPM
 SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6264'

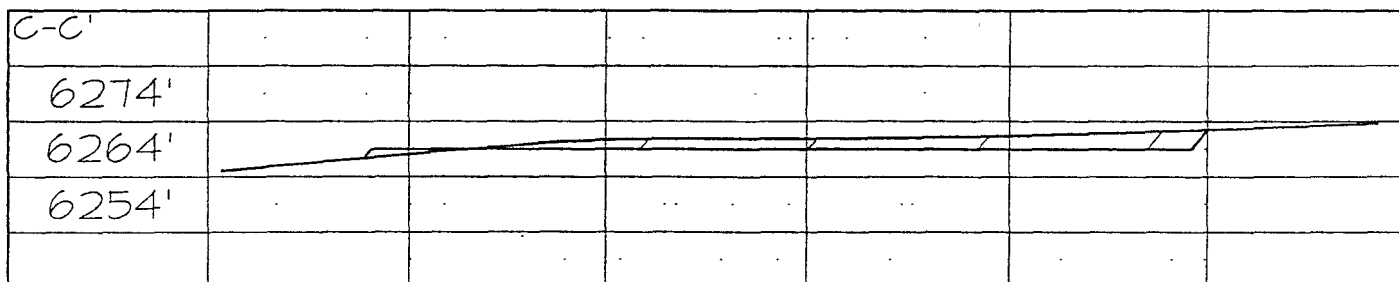
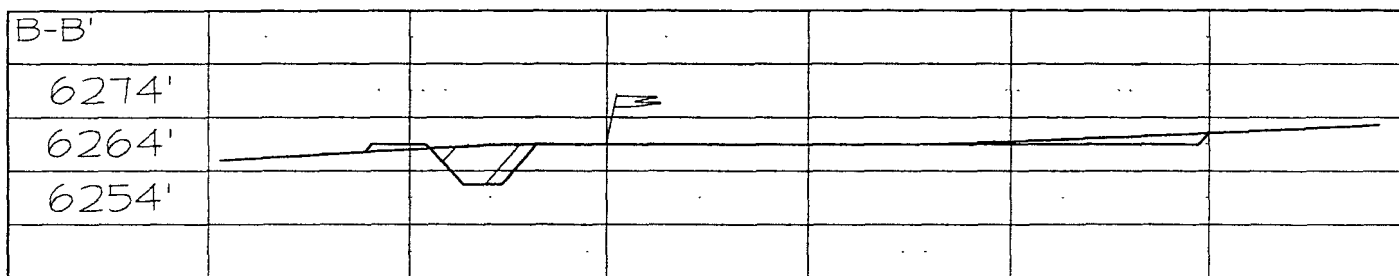
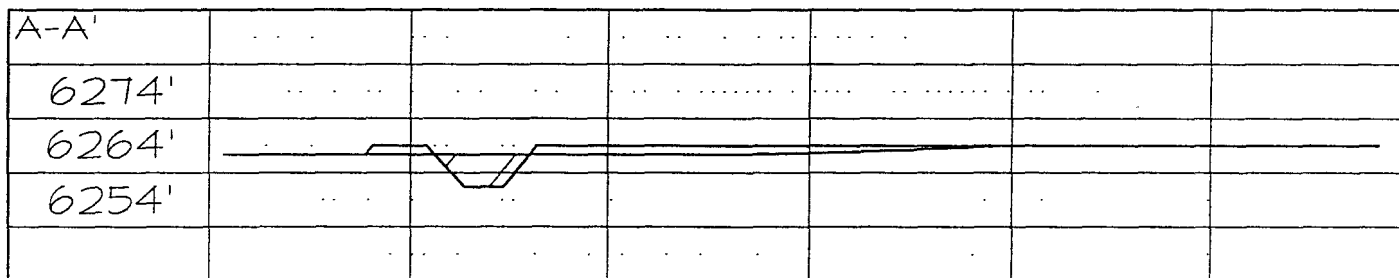
PLAT 3.

LATITUDE: 36.44562° N
 LONGITUDE: 108.08768° W
 DATUM: NAD1983



PLAT NOTE:

SURFACE OWNER
 Navajo Tribal Trust

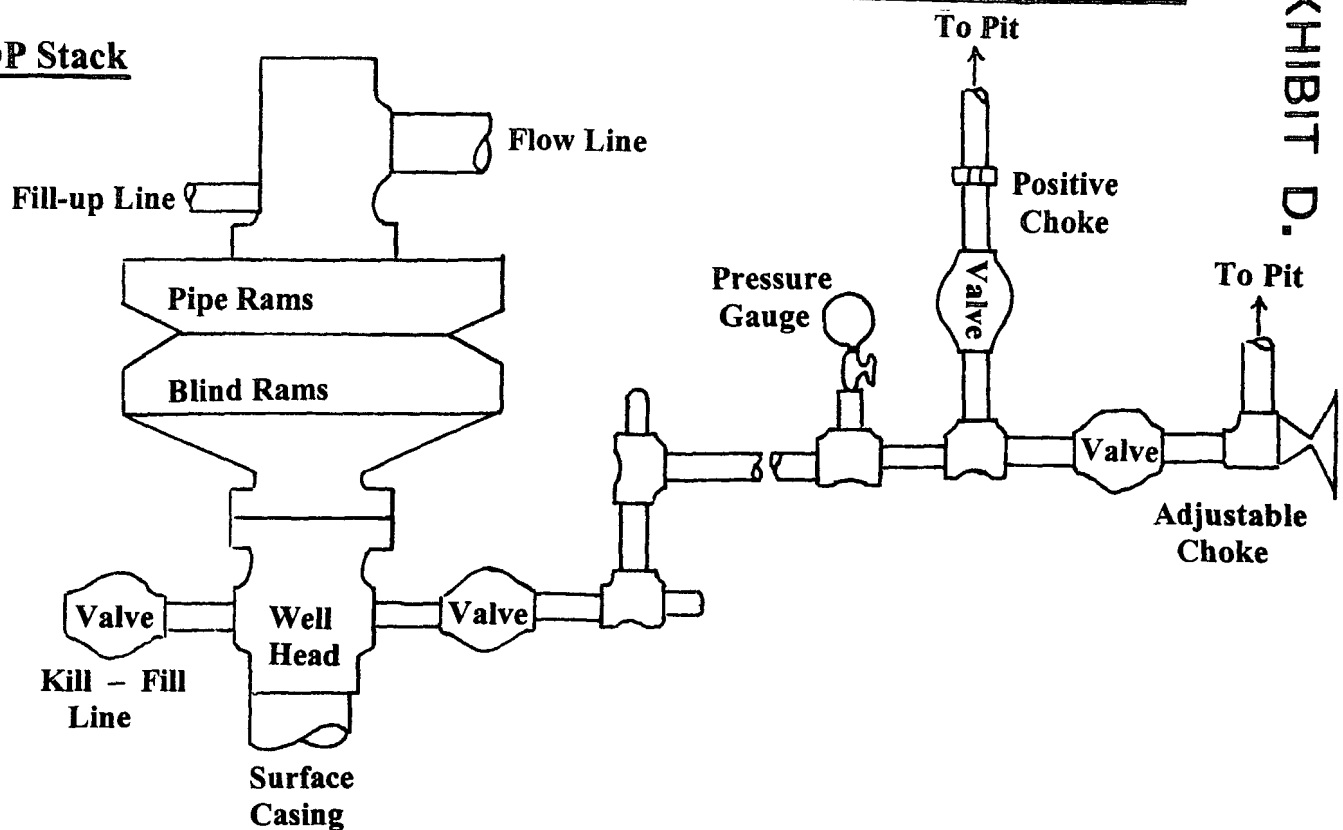


Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

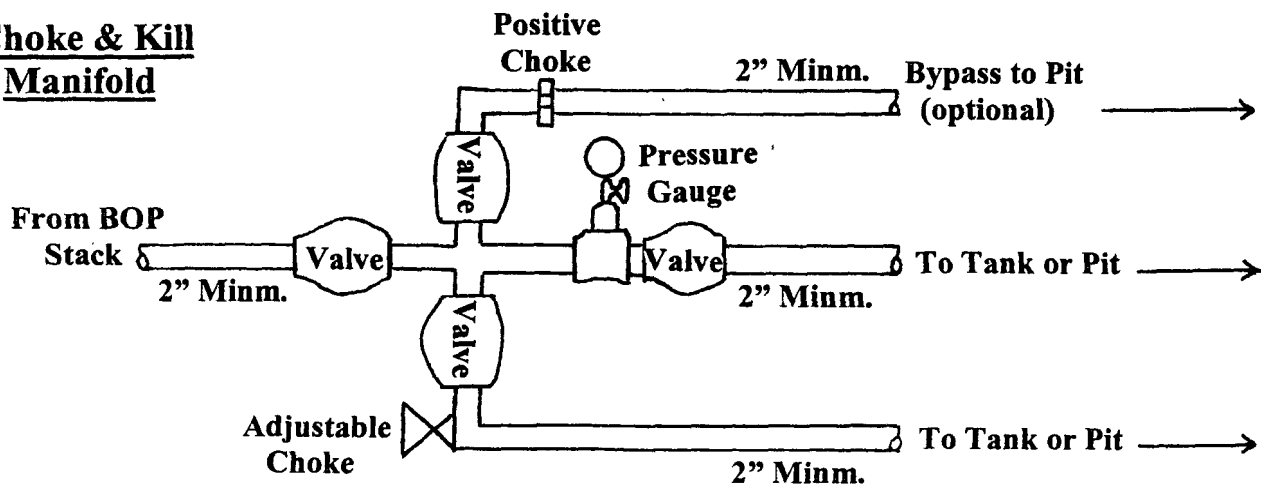
Well Control Equipment Schematic for 2,000 psi BOP

EXHIBIT D.

BOP Stack



Choke & Kill Manifold



Working Pressure for all equipment is 2,000 psi or greater

DUGAN PRODUCTION CORP.
GEORGE WASHINGTON #91