

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-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUG BACK, OR ADD A ZONE

Operator Name and Address Sonat Exploration Co. - Midland 110 W. Louisiana, Suite 500 Midland, Tx 79701		OGRID Number 109487
		API Number 30-015-28074
Property Code 17914	Property Name Todd "2" State	Well No. 8

Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
4	2	24S	31E		660	north	660	west	Eddy

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
Proposed Pool 1 Ingle Wells; Delaware 33745					Proposed Pool 2				

Work Type Code N	Well Type Code O	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 3467'
Multiple N	Proposed Depth 8,700'	Formation Delaware	Contractor n/a	Spud Date 1st Qtr 1998

Proposed Casing and Cement Program

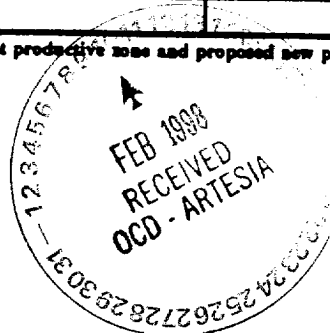
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
14-3/4"	11-3/4"	42# WC-40	670'	Suff to circ	surface
11"	8-5/8"	24# J55	4,300'	Suff to circ	surface
7-7/8"	5-1/2"	17# J55	8,700	2100 sx	500'

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

This proposed well is a Delaware test.

B. O. P. sketch is attached.

Post FD-1
9-20-98
HPI & Loe



I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Laura Clepper

Printed name:

Laura Clepper

Title:

Engineering Technician

Date:

2/6/98

Phone:

915/684-0400

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

Title:

Approval Date:

FEB 18 1998

Expiration Date:

2-18-99

Conditions of Approval:

Attached ☐

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DISTRICT IV
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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
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Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 33745	Pool Name Ingle Wells; Delaware
Property Code 17914	Property Name TODD "2" STATE	Well Number 8
OGRID No. 109487	Operator Name SONAT EXPLORATION COMPANY	Elevation 3467

Surface Location

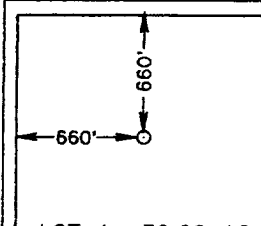
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	2	24 S	31 E		660	NORTH	660	WEST	EDDY

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
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Dedicated Acres 40	Joint or Infill	Consolidation Code	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

	LOT 4 39.99 AC.	LOT 3 39.98 AC.	LOT 2 39.96 AC.	LOT 1 39.95 AC.

OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.


Signature

Laura Clepper
Printed Name

Engineering Technician
Title

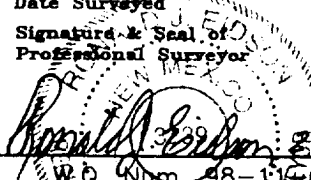
2/6/98
Date

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.

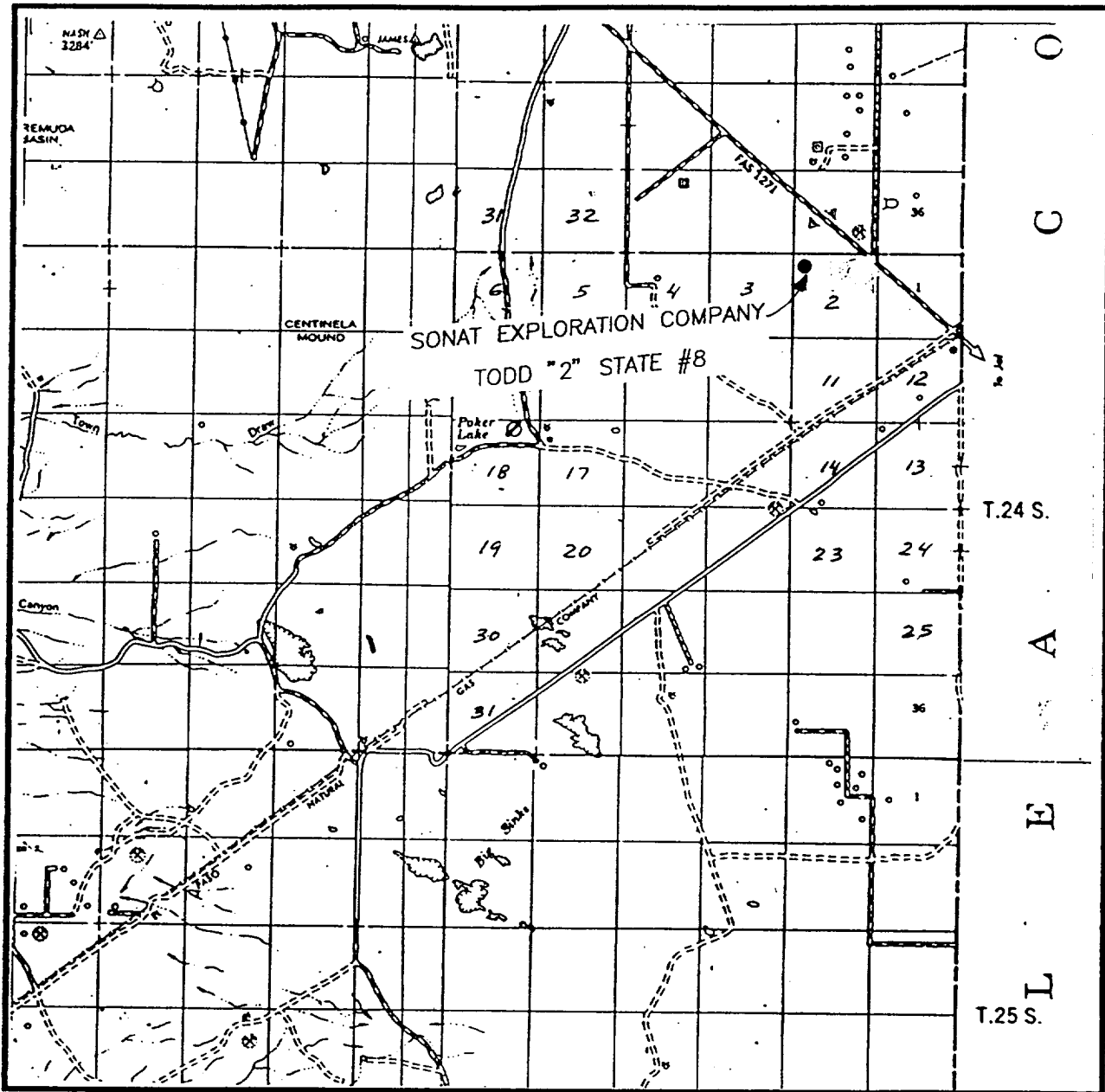
FEBRUARY 2, 1998

Date Surveyed JLP

Signature & Seal of Professional Surveyor

P.O. Num 98-1148148

Certification No. RONALD J. EDSON, 3239
GARY E. EDSON, 12641
WACON McDONALD, 12185

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 2 TWP. 24-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 660' FNL & 660' FWL

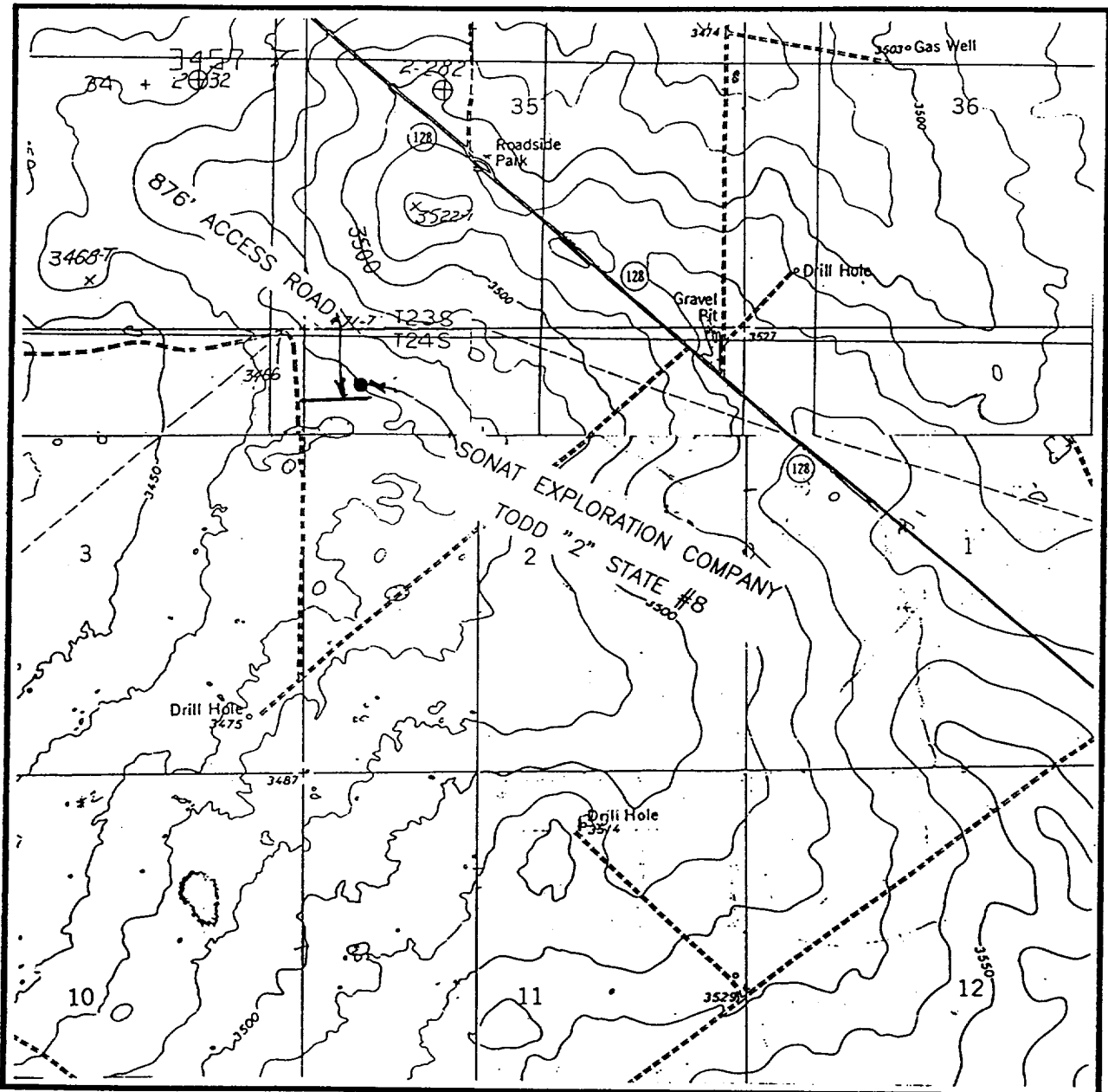
ELEVATION 3467'

OPERATOR SONAT EXPLORATION COMPANY

LEASE TODD "2" STATE

JOHN WEST ENGINEERING
HOBBS, NEW MEXICO
(505) 393-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL - 10'

SEC. 2 TWP. 24-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 660' FNL & 660' FWL

ELEVATION 3467'

OPERATOR SONAT EXPLORATION COMPANY

LEASE TODD "2" STATE

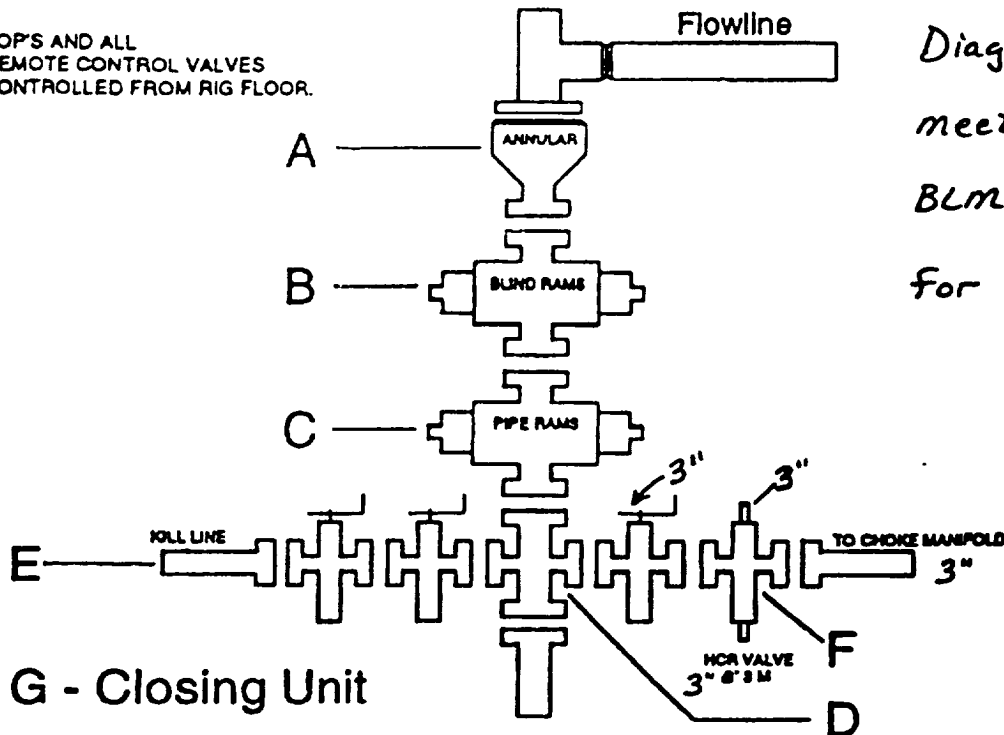
U.S.G.S. TOPOGRAPHIC MAP

PADUCA BREAKS NW, HAT MESA, NASH DRAW, BIG SINKS, N.M.

JOHN WEST ENGINEERING
HOBBS, NEW MEXICO
(505) 393-3117

SONAT EXPLORATION**West ~~SONAT~~ TEXAS BUSINESS UNIT****Minimum Requirements for a 3,000 psi BOP
Stack Manifold & Closing System**

BOP'S AND ALL
REMOTE CONTROL VALVES
CONTROLLED FROM RIG FLOOR.



*Diagram as shown
meets the minimum
BLM requirements
for a 3M stack.*

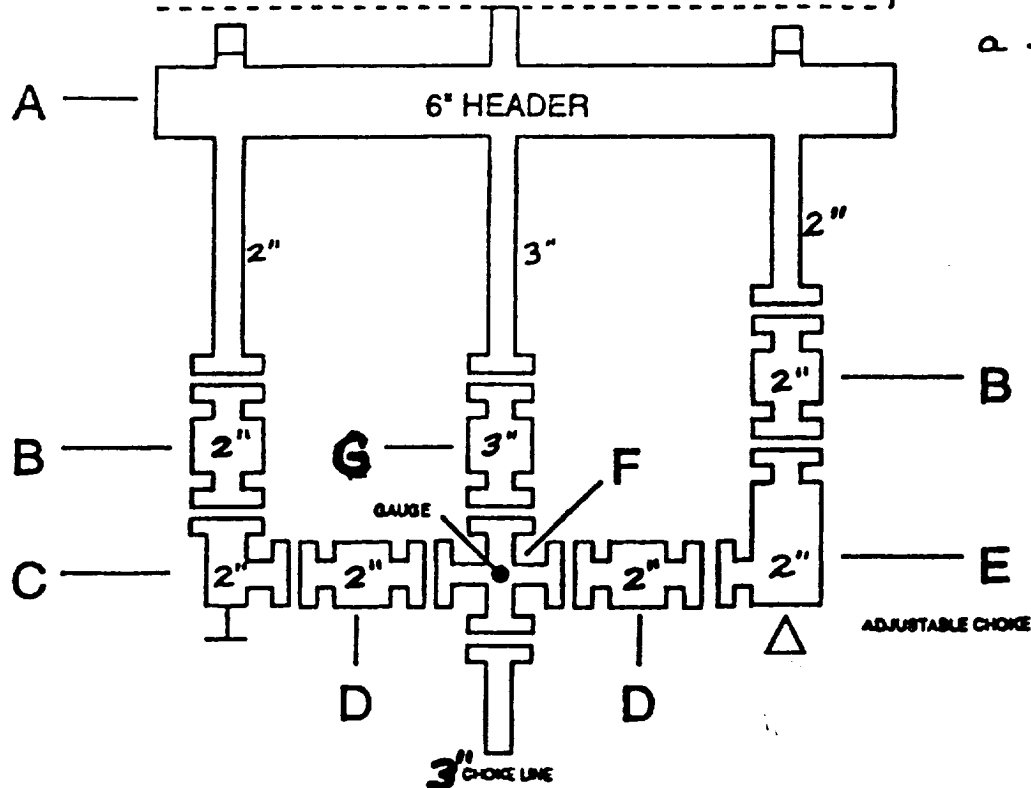
- G - Closing Unit**
- A. Annular BOP Must be 3000 psi Working Pressure.
 - B. Blind Rams Between Annular & Pipe Rams w/ 3000 psi Working Pressure.
 - C. Pipe Rams Below Blind Rams w/ 3000 psi Working Pressure.
 - Note: All Rams & Spools Must Meet Required I.D. for Hole Size.
 - D. Drilling Spool w/ 2 Outlets for Choke Line & Kill Line
 - E. Kill Line 2" 3 M w/ 2 Manual Valves Bolted & Flanged Below Bottom Pipe Rams. Either a Drilling Spool or the Outlet on the BOP Stack can be Used to Accommodate Kill Line and Choke Line.
 - F. Choke Line w/ 3" 3 M Valves. Inside Valve can be Manual but the Outside Valve Must be Hydraulic (HCR). Choke Line Must be 3" 3 M.
 - G. Closing Unit (Koomey) w/ a Primary & Secondary Pressure Supply to Operate the BOP Stack. Also a N₂ Supply will be Provided as a Final Source of Operation to Close the BOP Stack. This Unit is Required to Contain a minimum of 1 1/2 Times the Needed Volume to Operate the BOP Stack at All Times. The Precharge of N₂ will be Checked Prior to Commencing Work for SONAT.

SONAT EXPLORATION**West ██████████ TEXAS BUSINESS UNIT**

Minimum Requirements for a
3,000 psi BOP Stack Manifold

A Gas Buster is Preferred but not
Necessary on a 3,000 psi System

Diagram as shown
meets the minimum
BLM requirements +
a 3m stack.



- A. Header for Gas Expansion 6" O.D. Tube.
- B. 2" 3 M Manual Valves on Down Stream Side of Choke.
- C. 2" 3 M Manual Adjustable or Positive Choke.
- D. 2" 3 M Manual Valve
- E. 2" 3 M Adjustable w/ Remote Station
- F. 3" 3 M Tee w/ Gauge in Top Side 3" Choke Line

Note: All Pipe Will be Flanged & Welded. No Screwed Connections.

G. 3" 3m Manual Valve