

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393 6161 Fax: (575) 393 0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748 1283 Fax: (575) 748 9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334 6178 Fax: (505) 334 6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476 3460 Fax: (505) 476 3462

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
Revised July 18, 2013

Oil Conservation Division ☐ AMENDED REPORT
NM OIL CONSERVATION
1220 South St. Francis Dr. ARTESIA DISTRICT
Santa Fe, NM 87505 MAY 24 2017

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

¹ Operator Name and Address CHEVRON U.S.A. INC 6301 DEAUVILLE BLVD. MIDLAND, TX 79706		² OGRID Number 4323
		³ API Number 30-015-44202
⁴ Property Code 317786	⁵ Property Name DIGNITAS 26 STATE SWD	
		⁶ 1 1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
J	26	25S	27E		1920	SOUTH	1710	EAST	EDDY

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
J	26	25S	27E		1920	SOUTH	1710	EAST	EDDY

9. Pool Information

⁹ Pool Name SWD, SILURIAN - Ordovician	¹⁰ Pool Code 98191
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Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary CABLE	¹⁴ Lease Type STATE	¹⁵ Ground Level Elevation 3105
¹⁶ Multiple NO	¹⁷ Proposed Depth 15000	¹⁸ Formation SILURIAN	¹⁹ Contractor	²⁰ Spud Date 07/01/2017
²¹ Depth to Ground water		²² Distance from nearest fresh water well		²³ Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits - YES

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
SURF	24	18.625	87.5	450	422	0
INTER 1	16	13.375	72	8499	1736	300
LINER 1	15	11.75	60	9744	501	8199
PROD	10.625	8.625	44	13510	614	9444
LINER 2	8.5	6.625	28	13786	73	13200

Casing/Cement Program: Additional Comments

SWD ADMINISTRATIVE ORDER – WILL BE REQUESTED

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DOUBLE RAM	5000	5000	

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐ if applicable.

Signature: *[Signature]* 3-22-2017

Printed name: DORIAN K. FUENTES

Title: REGULATORY SPECIALIST

OIL CONSERVATION DIVISION

Approved By: *[Signature]*

Title: *Geologist*

Approved Date: 5-24-17

Expiration Date: 5-24-19

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Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44202	² Pool Code 98191	³ Pool Name SWD; Silurian-Ordovician
⁴ Property Code 317786	⁵ Property Name DIGNITAS 26 STATE SWD	⁶ Well Number 1
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 3105'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
J	26	25 SOUTH	27 EAST, N.M.P.M.		1920'	SOUTH	1710'	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
J	26	25 SOUTH	27 EAST, N.M.P.M.		1920'	SOUTH	1710'	EAST	EDDY

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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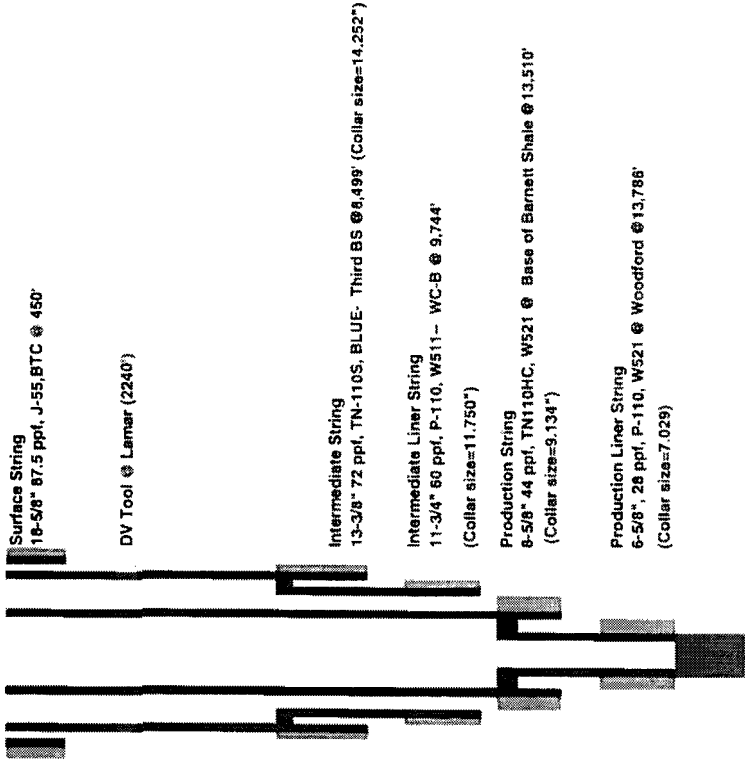
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>DIGNITAS 26 STATE SWD 1 WELL</p> <p>X= 554,539 NAD 27 Y= 399,797 LAT. 32.099036 LONG. 104.157208</p> <p>X= 595,723 NAD83 Y= 399,854 LAT. 32.099157 LONG. 104.157700</p> <p>ELEVATION +3105' NAVD 88</p>	<p>CORNER COORDINATES TABLE (NAD 27)</p> <p>A - Y=403066.35 X=550914.53 B - Y=403056.72 X=553547.34 C - Y=403046.49 X=556180.10 D - Y=397757.44 X=551035.56 E - Y=397933.25 X=553702.88 F - Y=397744.31 X=556293.47</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or leasehold mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order, as such are referred by the division.</p> <p><i>[Signature]</i> 03-22-2017 Date Herman K. Fuentes Printed Name diver@chevron.com E-mail Address</p> <p>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>1-27-2017 Date of Survey Signature and Seal of Professional Surveyor 23006 Certificate Number</p>
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Formation	Depth		Thickness		Pore Pressure		Mud V
	shallow-deep , ft TVD		thin-thick, ft		low - high, psi		low - hi
Castille	871	971	-	-	427	427	8.9
Lamar LS	2,191	2,291	-	-	1,040	1,040	8.9
Bell Canyon	2,256	2,356	-	-	1,070	1,070	8.9
Cherry Canyon	3,014	3,114	-	-	1,424	1,604	8.9
Brushy Canyon	4,181	4,281	-	-	1,967	2,215	8.9
T/Bone Spring	5,891	5,991	-	-	2,782	3,131	8.9
T/Avalon Shale	5,994	6,094	-	-	2,837	3,192	8.9
T/1st Bone Spring Sand	6,739	6,839	-	-	3,028	3,419	8.9
T/2nd Bone Spring Sand	7,294	7,394	-	-	3,246	3,677	8.9
3rd Bone Spring Lime	7,814	7,914	-	-	3,470	3,931	8.9
T/3rd Bone Spring Sand	8,550	8,650	-	-	3,796	4,301	8.9
Top of Wolfcamp	8,909	9,009	-	-	3,965	4,490	9.0
Top of Wolfcamp B	9,411	9,511	-	-	5,582	6,171	9.0
Top of Wolfcamp C	9,694	9,794	-	-	6,207	6,783	12.5
Top of Wolfcamp D	9,827	9,927	-	-	6,283	6,879	12.5
Top of Strawn	11,121	11,521	-	-	7,916	8,579	12.5
Top of Atoka	11,771	12,171	-	-	8,351	9,052	12.5
Top of Morrow	11,871	12,271	-	-	8,377	9,085	12.5
Top Barnett Shale	12,291	12,691	-	-	8,074	8,807	12.5
Mississippian Lime	13,011	14,011	-	-	6,612	7,357	9.0
Top of Woodford	13,171	14,171	-	-	7,118	7,917	9.0
Top Silurian	13,286	14,286	-	-	6,515	6,991	8.9
TD - Base of Fusselman	14,346	15,346	-	-	6,154	7,024	8.9

potential salt water disposal formations

Eddy County Horizontal Development Hayhurst NM
Drilling Program "Quick-Look" for 5 String + OH



SWD Well
Eddy County, NM

Hole Size	Mud	Bits
24"	Fresh Water	PDC
18.0"	Brine/Cut Brine 9.5-13 ppg	PDC
12.25" x 13"	OBM 9.0-12.5 ppg	PDC
10.625"	OBM 12.5-14.5 ppg	PDC
8.75" x 8.5"	Cut Brine 8.5-9.2 ppg	PDC
5.5"	Cut Brine 8.5-9.0 ppg	PDC

5. CEMENTING PROGRAM

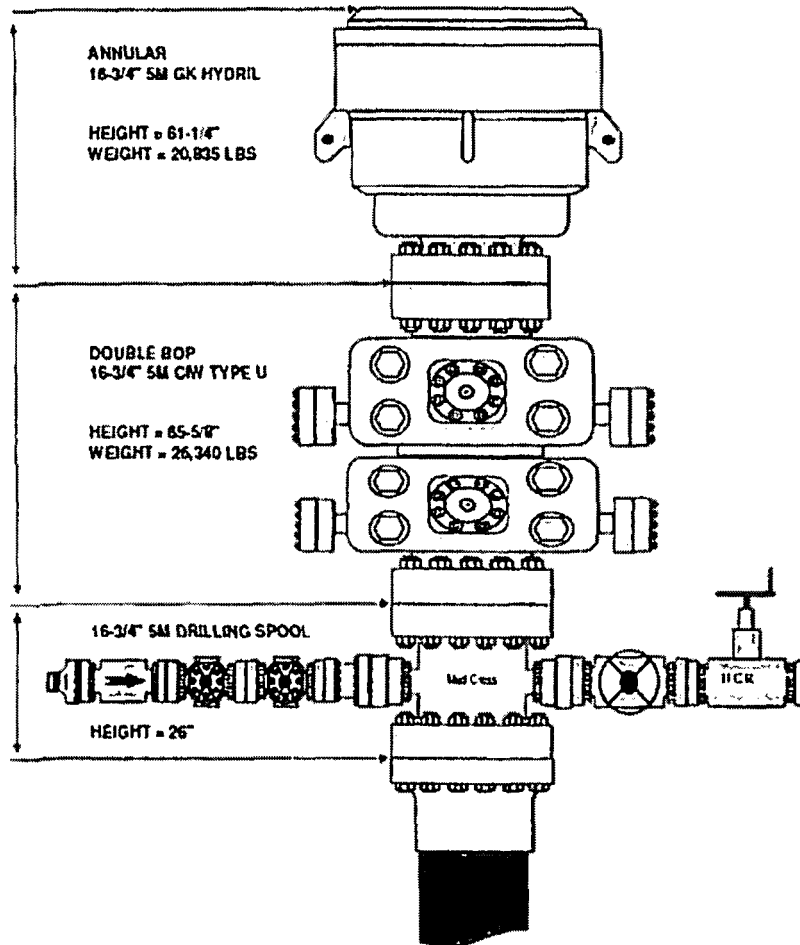
Slurry	Type	Top	Bottom	Weight	Yield	Sacks	Water
Surface				(ppg)	(cu ft/sx)		gal/sk
Tail	Class C	0'	450'	14.8	1.33	422	6.37
Intermediate							
Stage 2 Lead	50:50 Poz: Class C + Antifoam, Extender, Salt	300'	1,240'	11.9	2.43	163	13.97
Stage 2 Tail	Class C	1,240'	2,240'	14.8	1.33	316	6.36
Stage 1 Lead	Class C + Extender, Antifoam, Retarder, Salt, Viscosifier	2,240'	7,499'	11.9	2.42	913	13.74
Stage 1 Tail	Class H + Retarder, Extender, Dispersant, Anti-Foam	7,499'	8,499'	15.6	1.22	344	5.34
Intermediate Liner							
Lead	Class H + Extender, Antifoam, Dispersant, , Retarder, Fluid Loss	8,199'	8,744'	15.6	1.24	109	5.42
Tail	Class H + Extender, Antifoam, Dispersant, , Retarder	8,744'	9,744'	15.6	1.21	392	5.35
Production							
Lead	50:50 Poz: Class H + Antifoam, Dispersant, Fluid Loss, Retarder, Extender, Fluid Loss	9,444'	12,510'	14.5	1.39	463	5.56
Tail	50:50 Poz: Class H	12,510'	13,510'	14.5	1.39	151	5.57

	+ Antifoam, Dispersant, Fluid Loss, Retarder, Extender, Fluid Loss						
Production Liner							
Tail	TXI: Anti-Foam, Dispersent, Fluid Loss, Viscosfier, Retarder	13,200'	13,786'	12.5	1.56	73	8.39

Intermediate Section

CUSTOMER
RIG:
CONTACT:
PHONE:
EMAIL:

CHEVRON USA
ENSIGN 769
MR. JUSTIN MURPHY
(281)406-2260
jmurphy769@chevron.com



The following item must be verified and checked off prior to pressure testing of BOP equipment.

- ☐ The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.
- ☐ All valves on the kill line and choke line will be full opening and will allow straight through flow.
- ☐ The kill line and choke line will be straight unless turns use tee blocks or are targeted with running tool, and will be anchored to prevent whip and reduce vibration.
- ☐ Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be installed on all manual valves on the choke line and kill line.
- ☐ A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperative.
- ☐ Upper kelly cock valve with handle will be available on rig floor along with safety valve and subs to fit all drill string connections in use.

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer

Wellname: _____
Representative: _____
Date: _____

Diagram A

CHOKE MANIFOLD SCHEMATIC

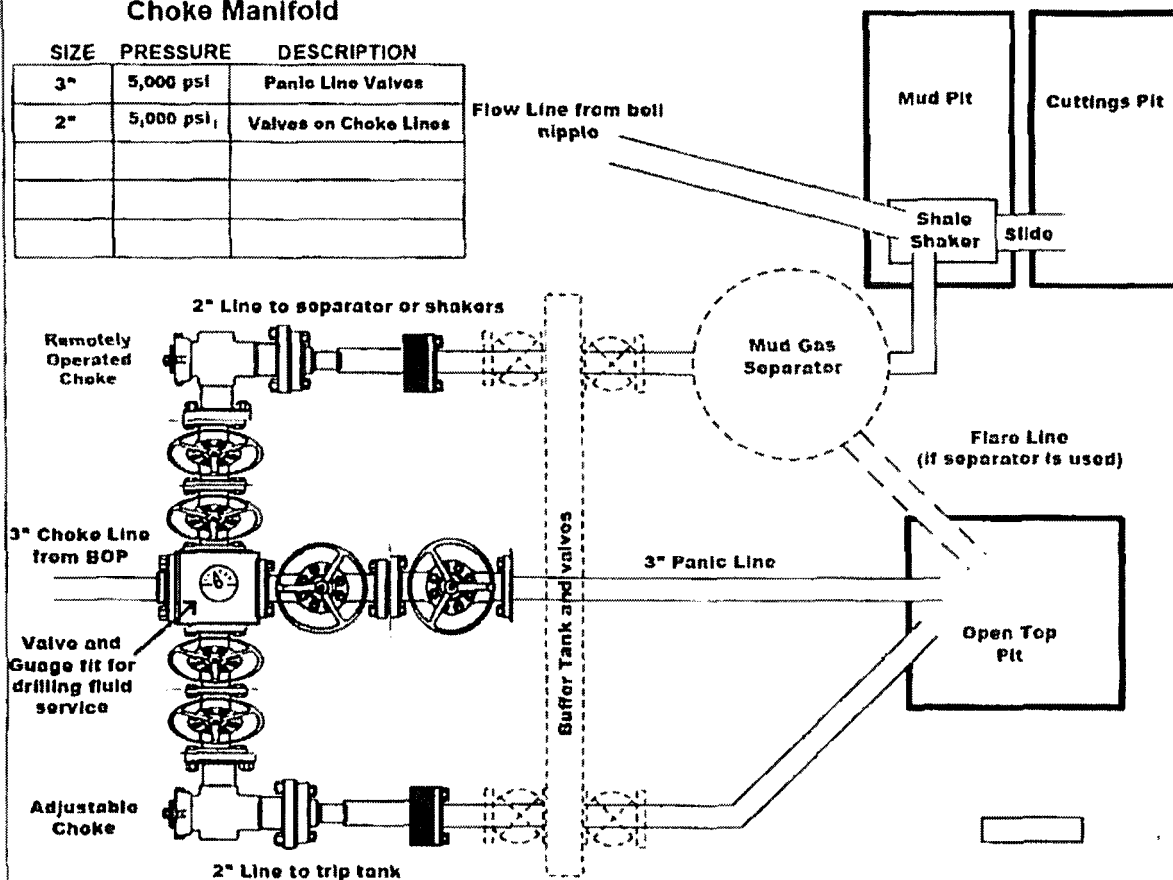
Minimum Requirements

OPERATION : 2nd Intermediate Hole Section

Minimum System Pressure Rating : 5,000 psi

Choke Manifold

SIZE	PRESSURE	DESCRIPTION
3"	5,000 psi	Panic Line Valves
2"	5,000 psi	Valves on Choke Lines



Installation Checklist

The following item must be verified and checked off prior to pressure testing of BOP equipment.

- ☐ The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.
- ☐ Adjustable Chokes may be Remotely Operated but will have backup hand pump for hydraulic actuation in case of loss of rig air pressure or power.
- ☐ Flare and Panic lines will terminate a minimum of 150' from the wellhead. These lines will terminate at a location as per approved APD.
- ☐ The choke line, kill line, and choke manifold lines will be straight unless turns use tee blocks or are targeted with running tool, and will be anchored to prevent whip and reduce vibration. This excludes the line between mud gas separator and shale shakers.
- ☐ All valves (except chokes) on choke line, kill line, and choke manifold will be full opening and will allow straight through flow. This excludes any valves between mud gas separator and shale shakers.
- ☐ All manual valves will have hand wheels installed.
- ☐ If used, flare system will have effective method for ignition
- ☐ All connections will be flanged, welded, or clamped (no threaded connections like hammer unions)
- ☐ If buffer tank is used, a valve will be used on all lines at any entry or exit point to or from the buffer tank.

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer

Wellname: _____

Representative: _____

Date: _____

10M BLOWOUT PREVENTER SCHEMATIC

Minimum Requirements

OPERATION: Production and Open Hole Sections

Minimum System Pressure Rating: 10,000 PSI

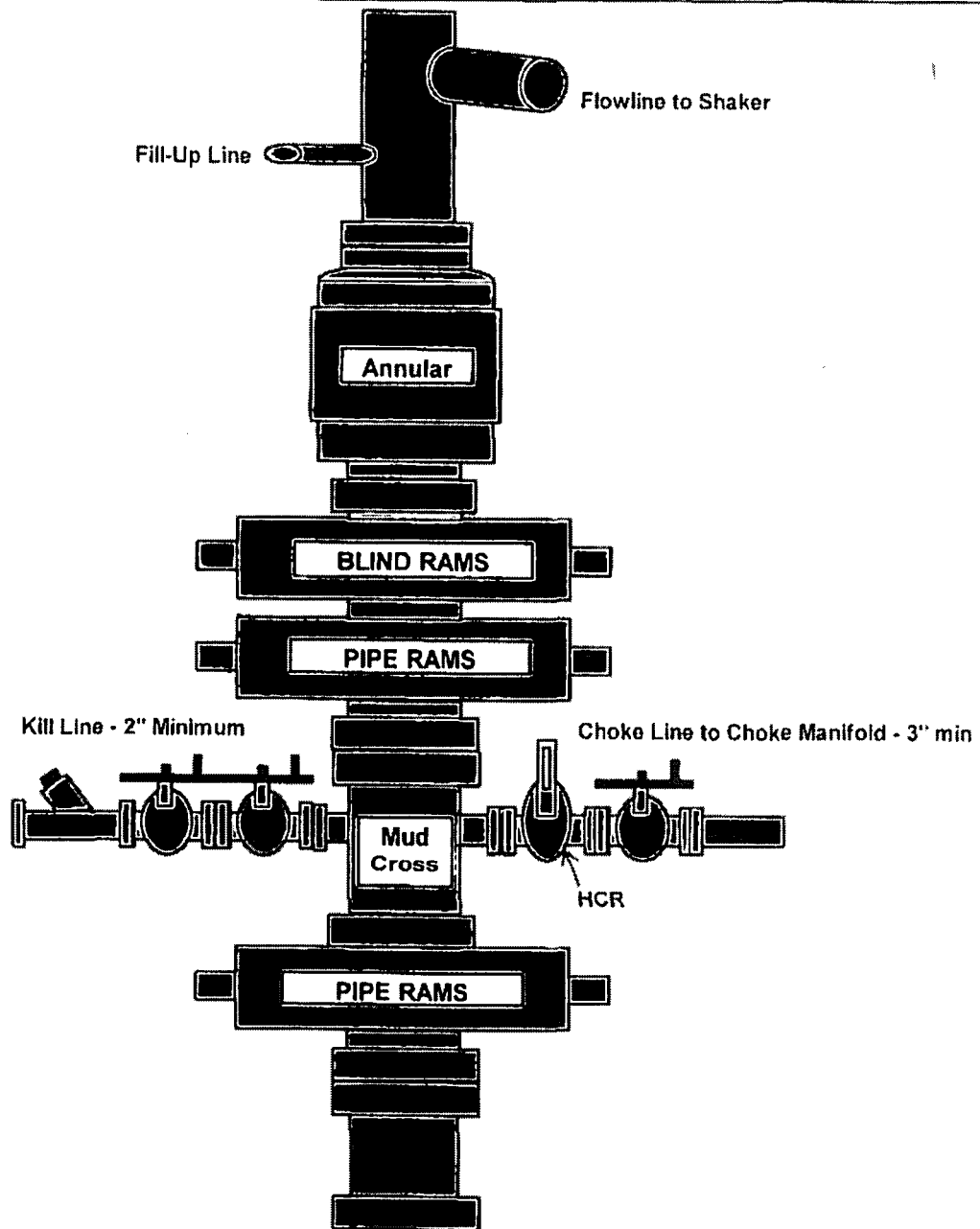


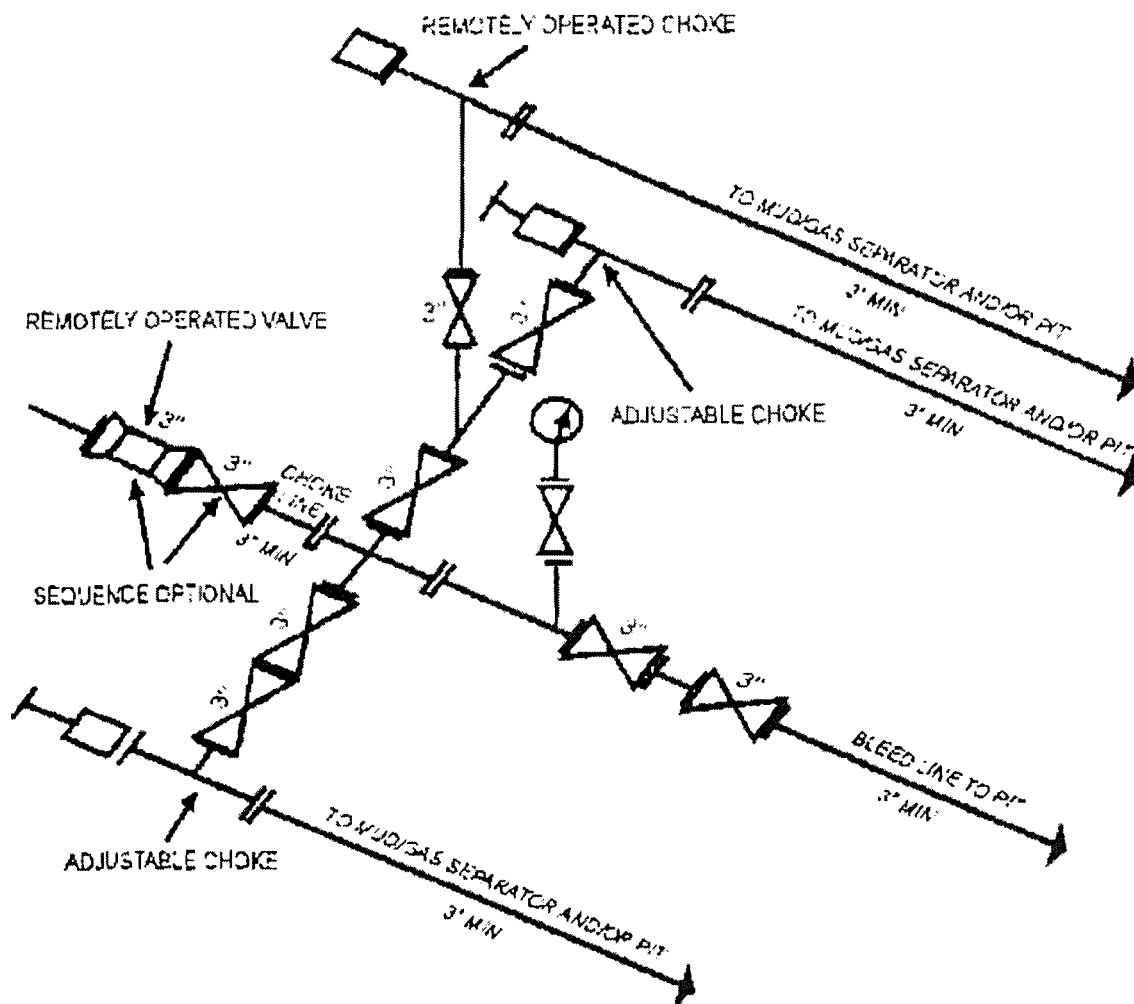
Diagram C

10M Choke Manifold SCHEMATIC

Minimum Requirements

OPERATION: Production and Open Hole Sections

Minimum System Pressure Rating: 10,000 PSI



10M AND 15M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY
[53 FR 49661, Dec. 9, 1988 and 54 FR 39528, Sept. 27, 1989]

Diagram D