

LEGEND:

- ① - 4 1/16"-10M FLANGED END GATE VALVE
- ② - 4 1/16"-10M FLANGED END GATE VALVE WITH DOUBLE ACTING HYDRAULIC ACTUATOR
- ③ - 2 1/16"-10M FLANGED END GATE VALVE
- ④ - 2 1/16"-10M FLANGED END CHECK VALVE
- ⑤ - DOUBLE STUDDED ADAPTER

SHAFFER BOLTED-COVER SPHERICAL ANNUULAR PREVENTER, (API 16A MONOGRAMMED, 13 5/8"-5M WP), 10M BOTTOM FLANGE + 5M STUDDED TOP (WEIGHT = 14,500 LBS WITH SHAFFER API 16A HOT OIL RESISTANT ADJUSTABLE ELEMENT)

CAVERON UM DOUBLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS & TOP SEALS) IN TOP CAVITY AND CAMERON OS SHEARING RING RAMS IN BOTTOM CAVITY. BOTTOM FLANGE + STUDDED TOP (WEIGHT = 21,100 LBS. WITH RAMS)

13 5/8"-10M WP CAMERON DRILLING SPOOL (API 16A MONOGRAMMED), STUDDED TOP + FLANGED BOTTOM, WITH 4 1/16"-10M WP FLANGED OUTLETS (WEIGHT APPROXIMATELY 6,000 LBS)

CAMERON UM SINGLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS & TOP SEALS) BOTTOM FLANGE + STUDDED TOP (WEIGHT = 10,900 LBS)

H&P FURNISHED
13 5/8"-10M x 13 5/8"-5M
ADAPTER SPOOL 2'-6" LONG

SEE LIFT LUG DETAIL

3'-1 7/8"

4'-3 7/8"

14'-2 1/2"

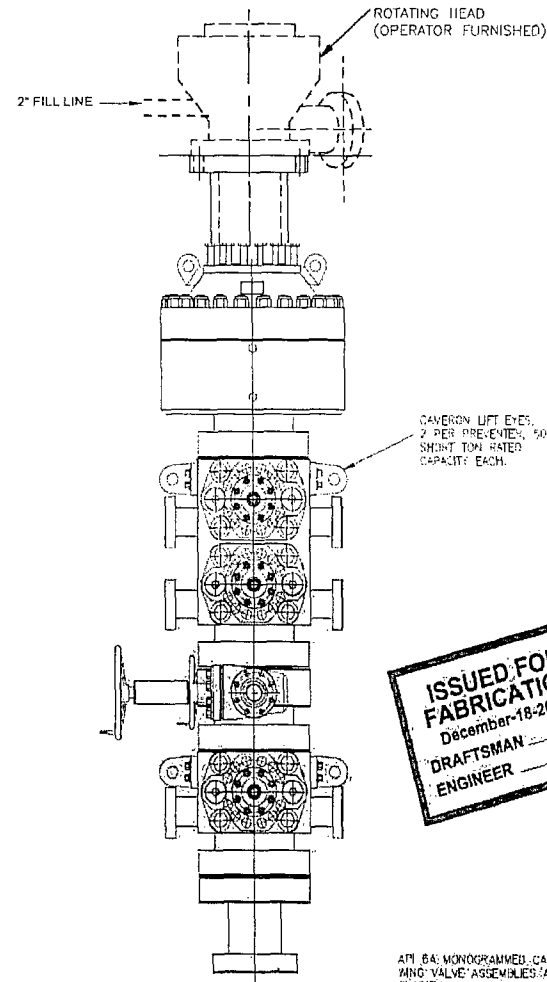
1'-5 7/8"

2'-5 7/8"

0'-0"

**13 5/8 - 10M BOP STACK
WITH 13 5/8 - 5M ANNULAR**

11'-1 5/8" CLOSED
10'-5 3/8" OPERATING
18'-5" OPENED



**ISSUED FOR
FABRICATION**
December-18-2007
DRAFTSMAN
ENGINEER

API 16A MONOGRAMMED CAMERON CHOKER AND KILLING VALVE ASSEMBLIES ARE NOT SHOWN FOR CLARITY
WEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS OR QUICK CONNECT FITTINGS

**HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.**

TITLE:
**13 5/8"-10M BOP 3 RAM STACK
'FLEXRIGS'**

CUSTOMER: H&P
PROJECT: FLEXRIGS
DRAWN: MTS DATE: 6-5-02 (INC. NO.)
SCALE: 3/4"=1' SHEET: 1 OF 2
210-P1-07

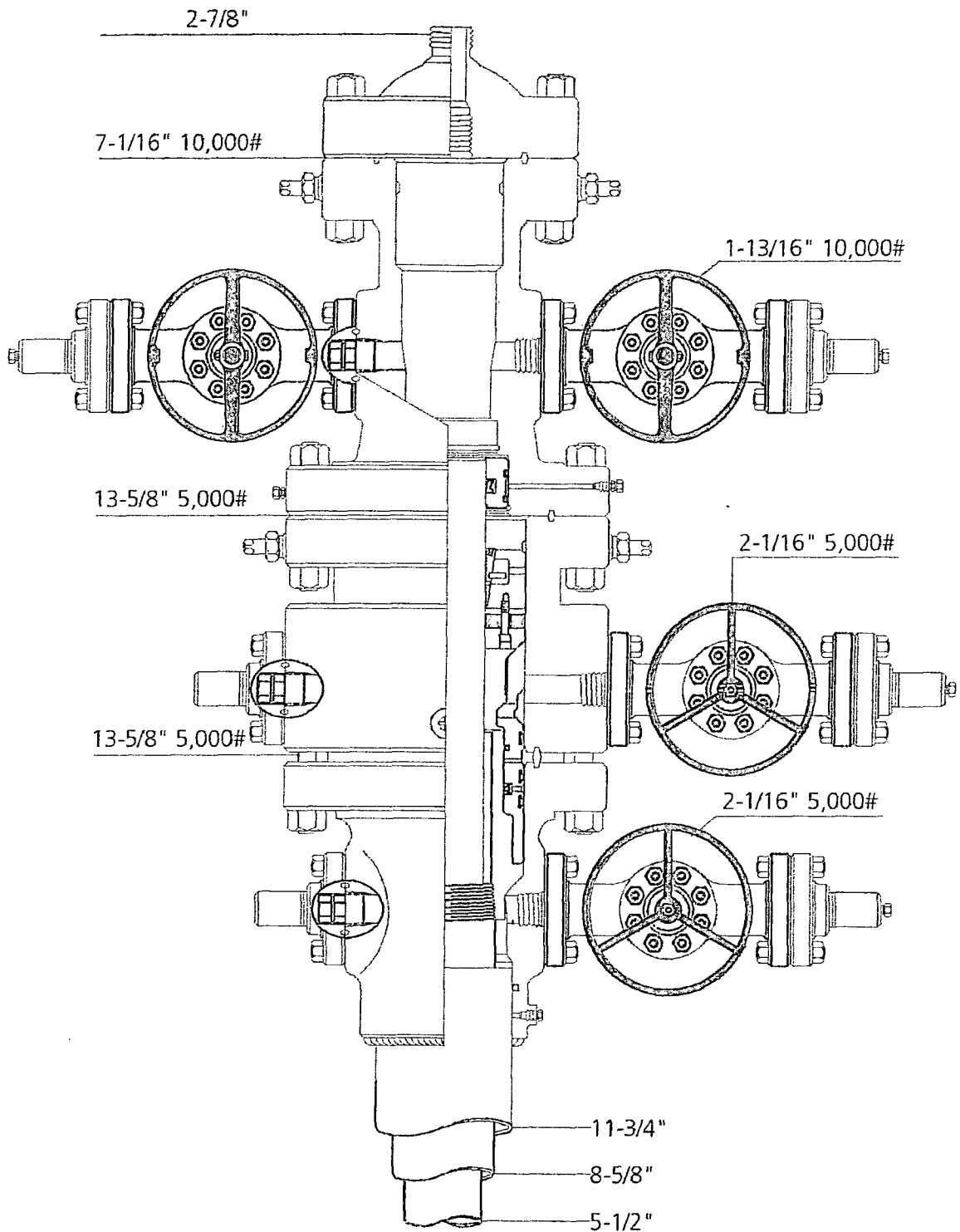
REV	DATE	DESCRIPTION	BY
1	12/18/02	ADDED SHEET 03	JAV
2	4-10-02	OPERATIONS ADDED (DOUBLE SHEED ADAPTER, VALVES 11, 12, 13, 14 AND 15 CHECK VALVE ADDED)	JRG
3	4-04-02	ADDED TO SPACER ADAPTER SPOOL	JRG
4	02-07-02	ADDED ADAPTER SPOOL	WML
5	06-13-02	CORRECTED (BOP STACK)	WML

PROPRIETARY

THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTION OR DISCLOSED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF A FULLY AUTHORIZED OFFICE OF HELMERICH & PAYNE INTL DRILLING CO.

30-025-41885

JUN 04 2014

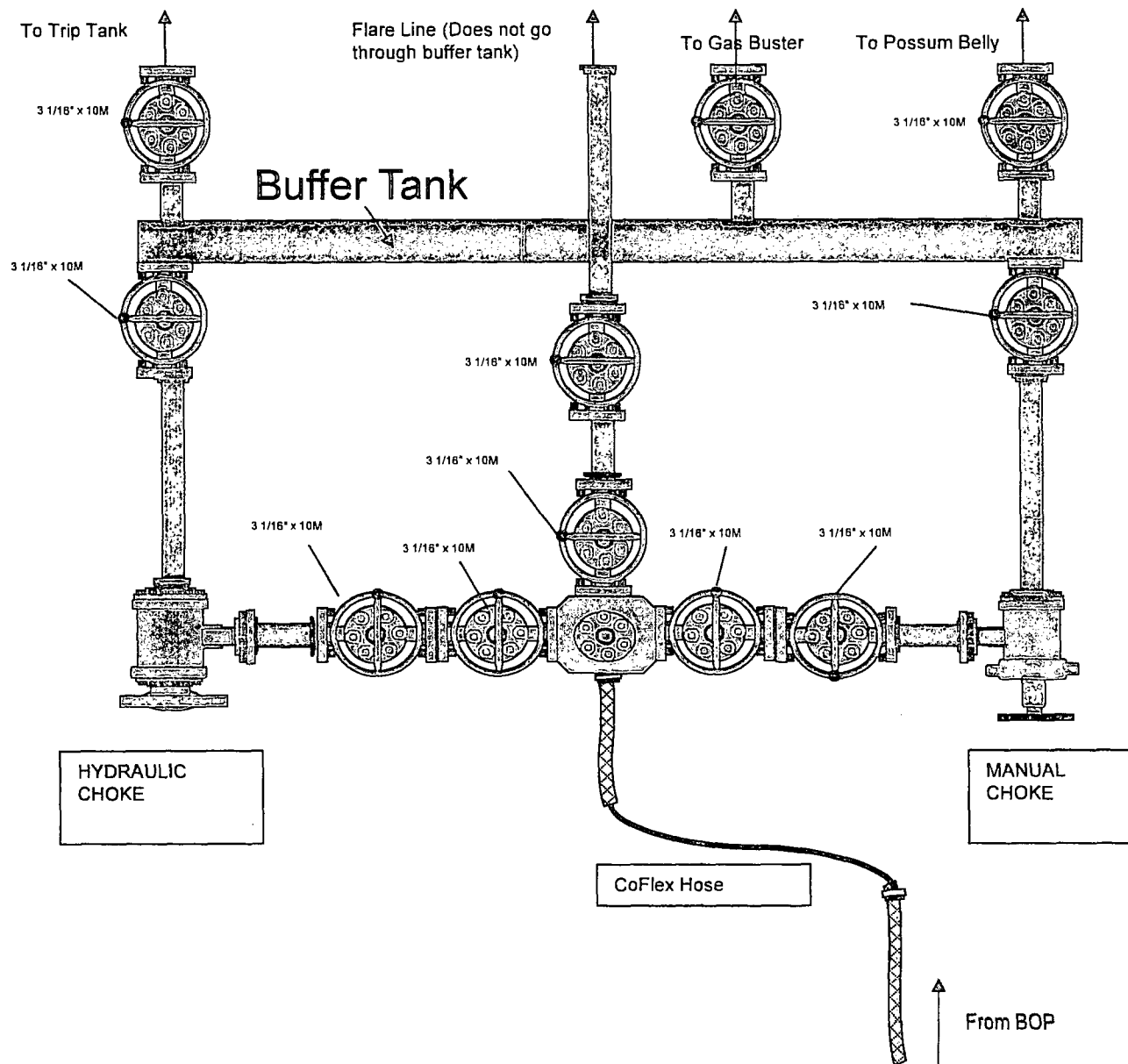


Permian Basin
MBS

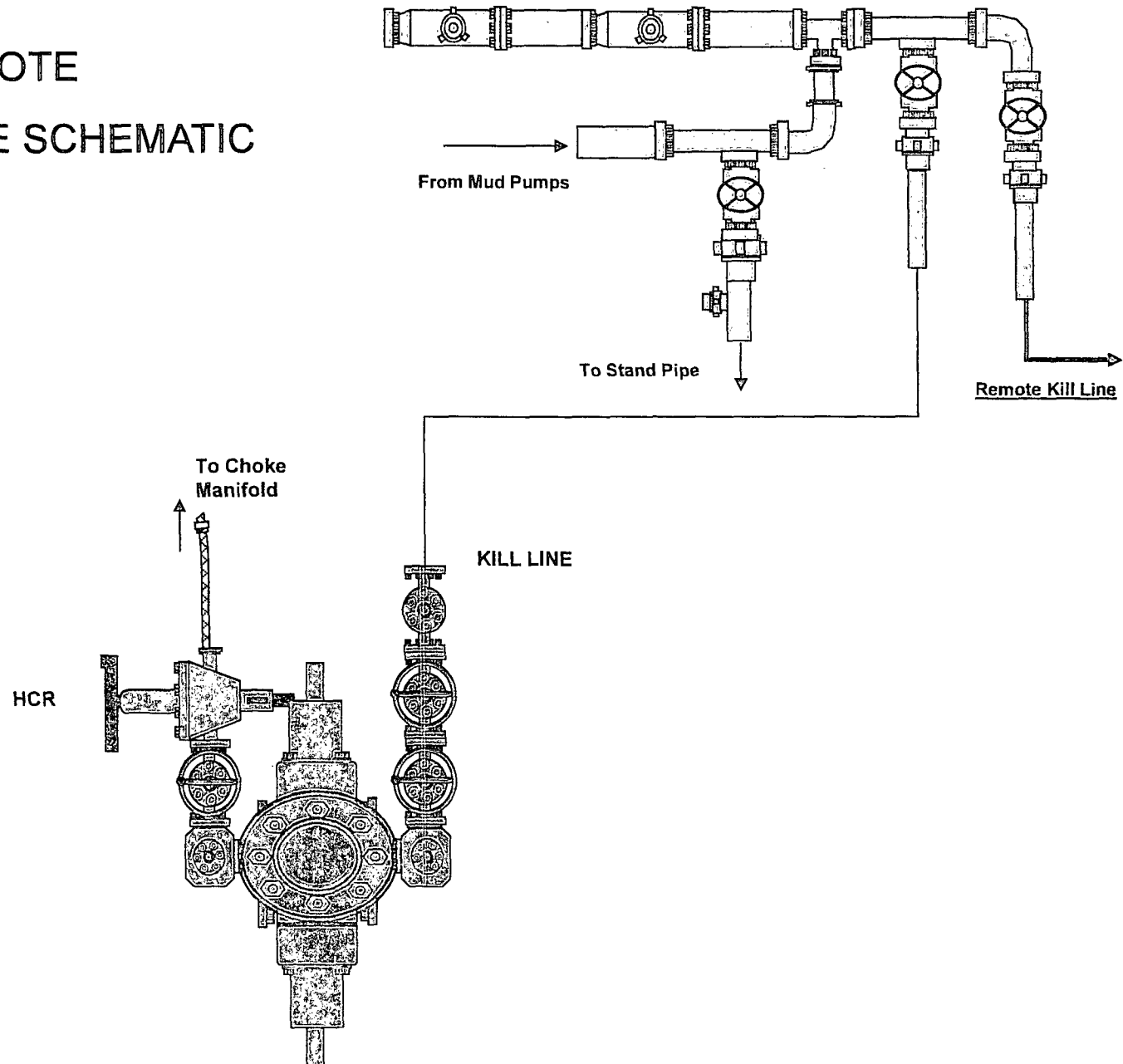


Name: Jeanette	Date: 1-31-13	Working Pressure:	# 21073221
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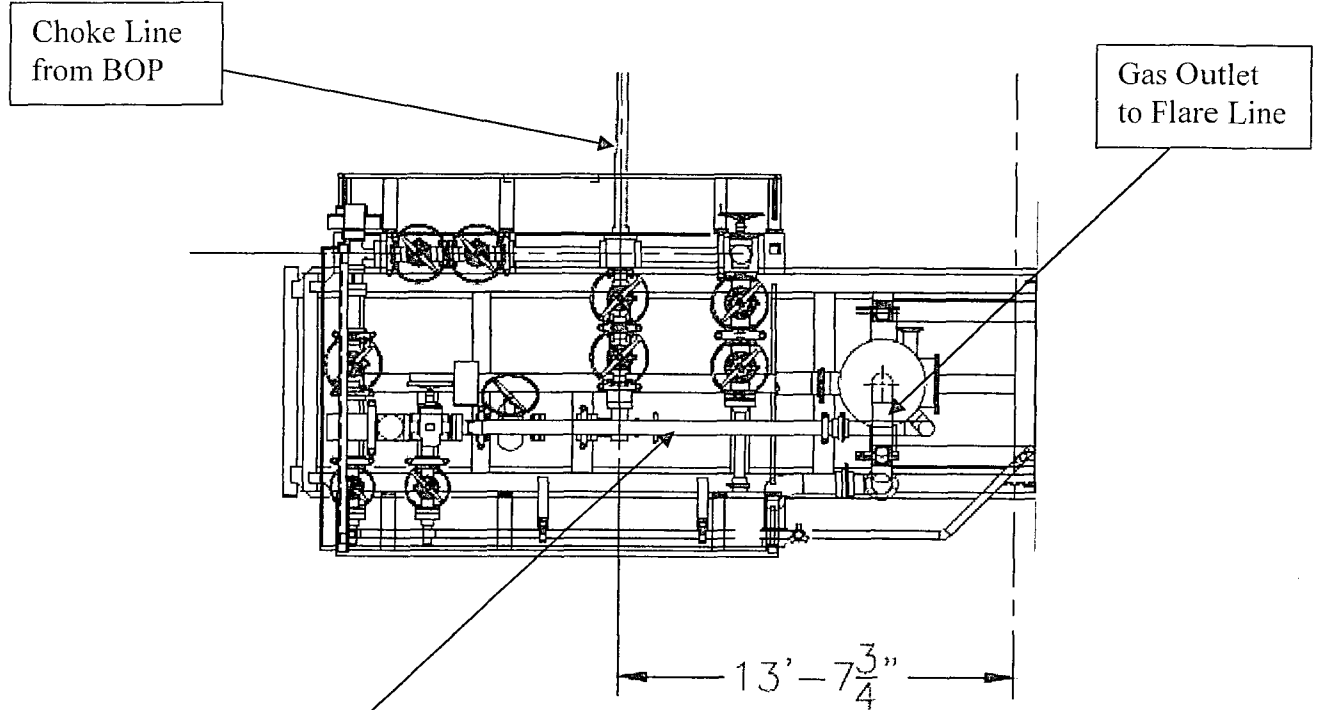
FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)



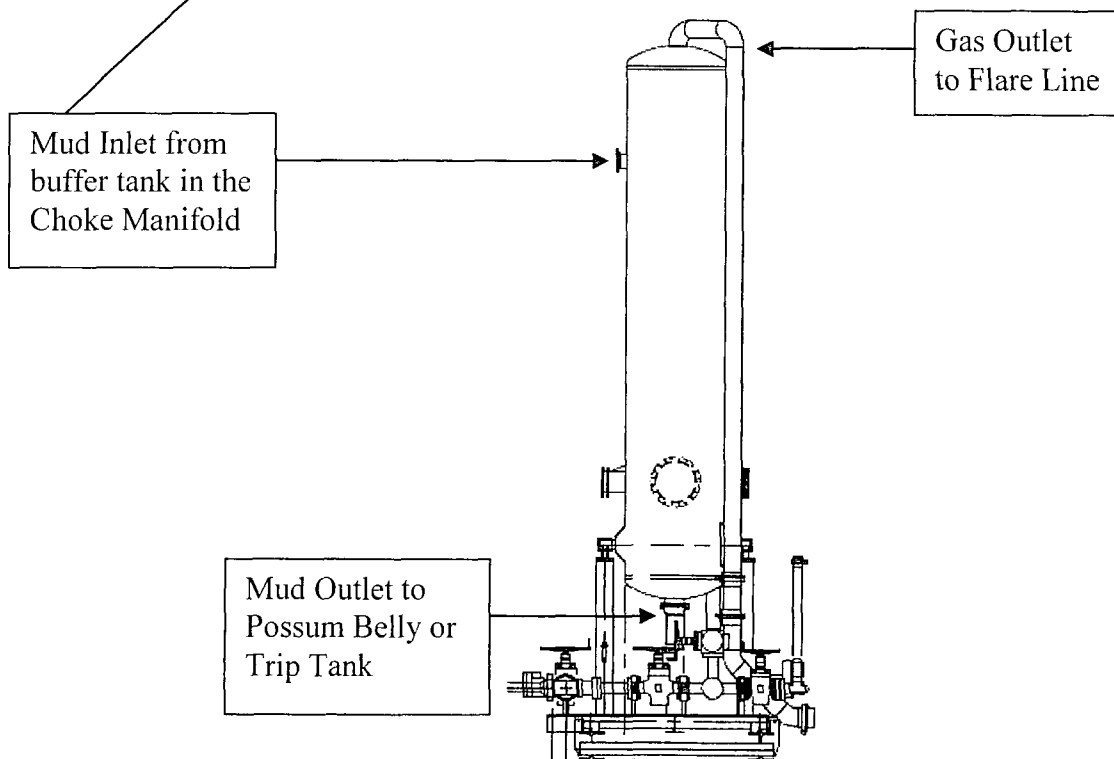
10M REMOTE KILL LINE SCHEMATIC



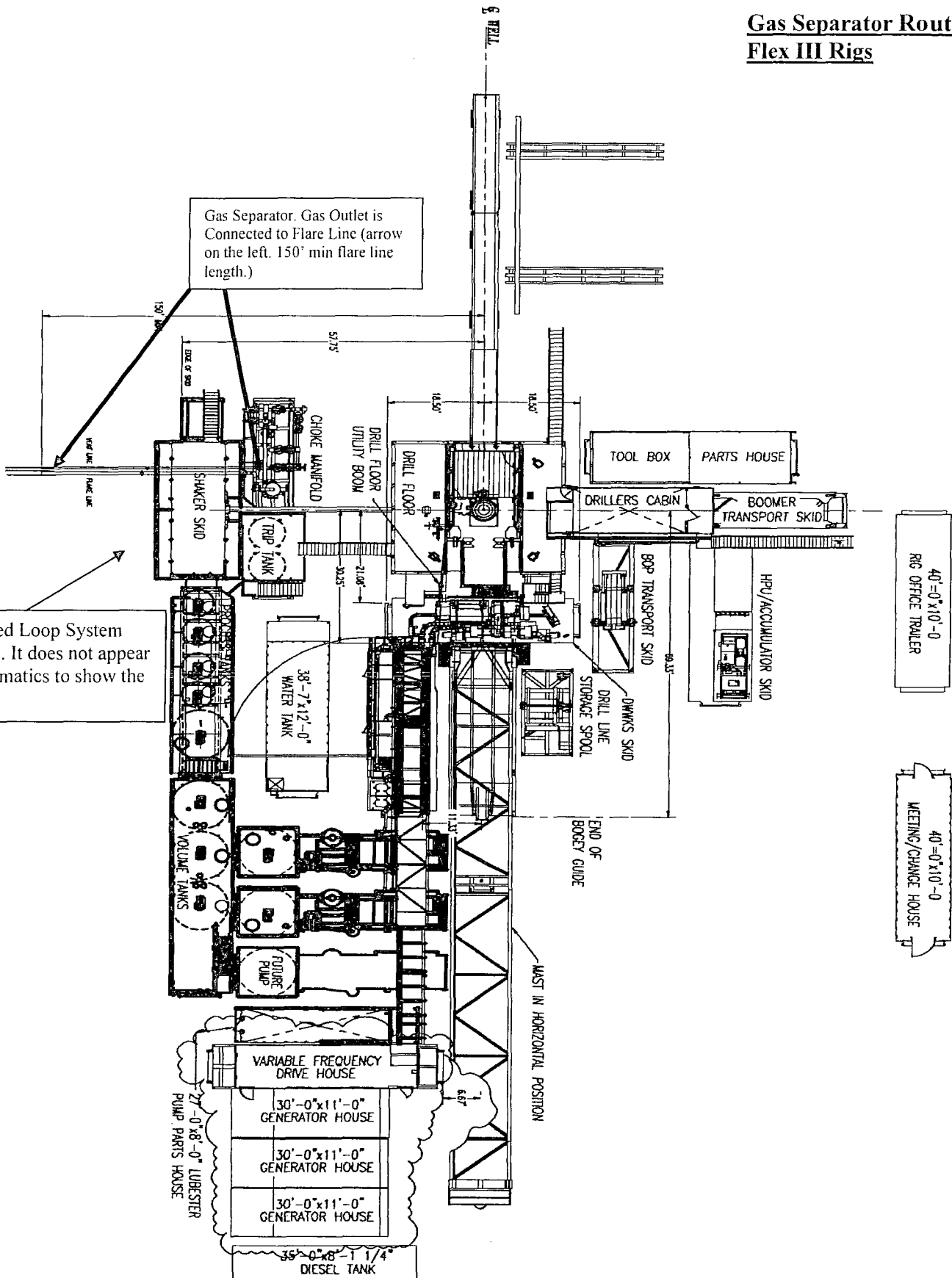
Choke Manifold – Gas Separator (Top View)



Choke Manifold – Gas Separator (Side View)



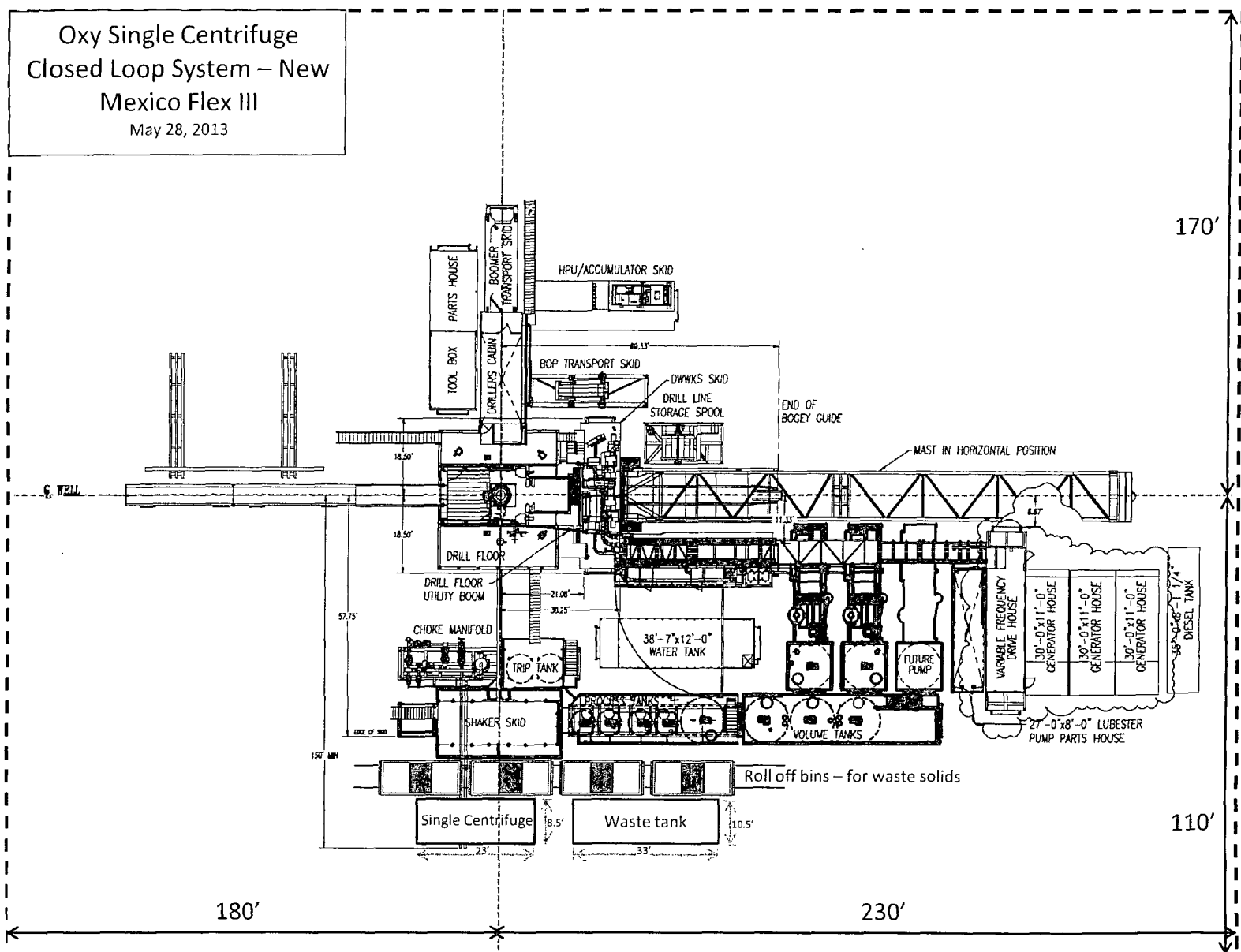
Gas Separator Routing Flex III Rigs



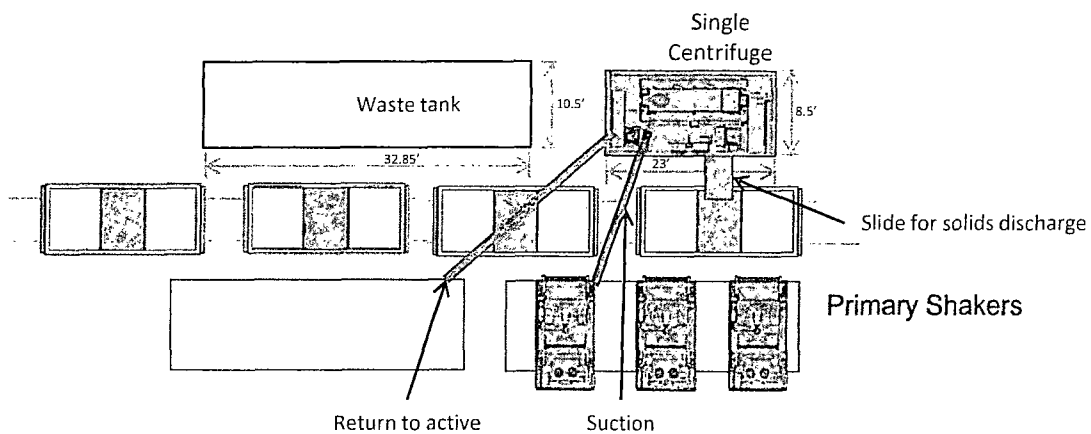
Note: Closed Loop System placed here. It does not appear on the schematics to show the flare line.

Oxy Single Centrifuge Closed Loop System – New Mexico Flex III

May 28, 2013



Oxy



Oxy Single Centrifuge
Closed Loop System – New
Mexico Flex III
May 28, 2013