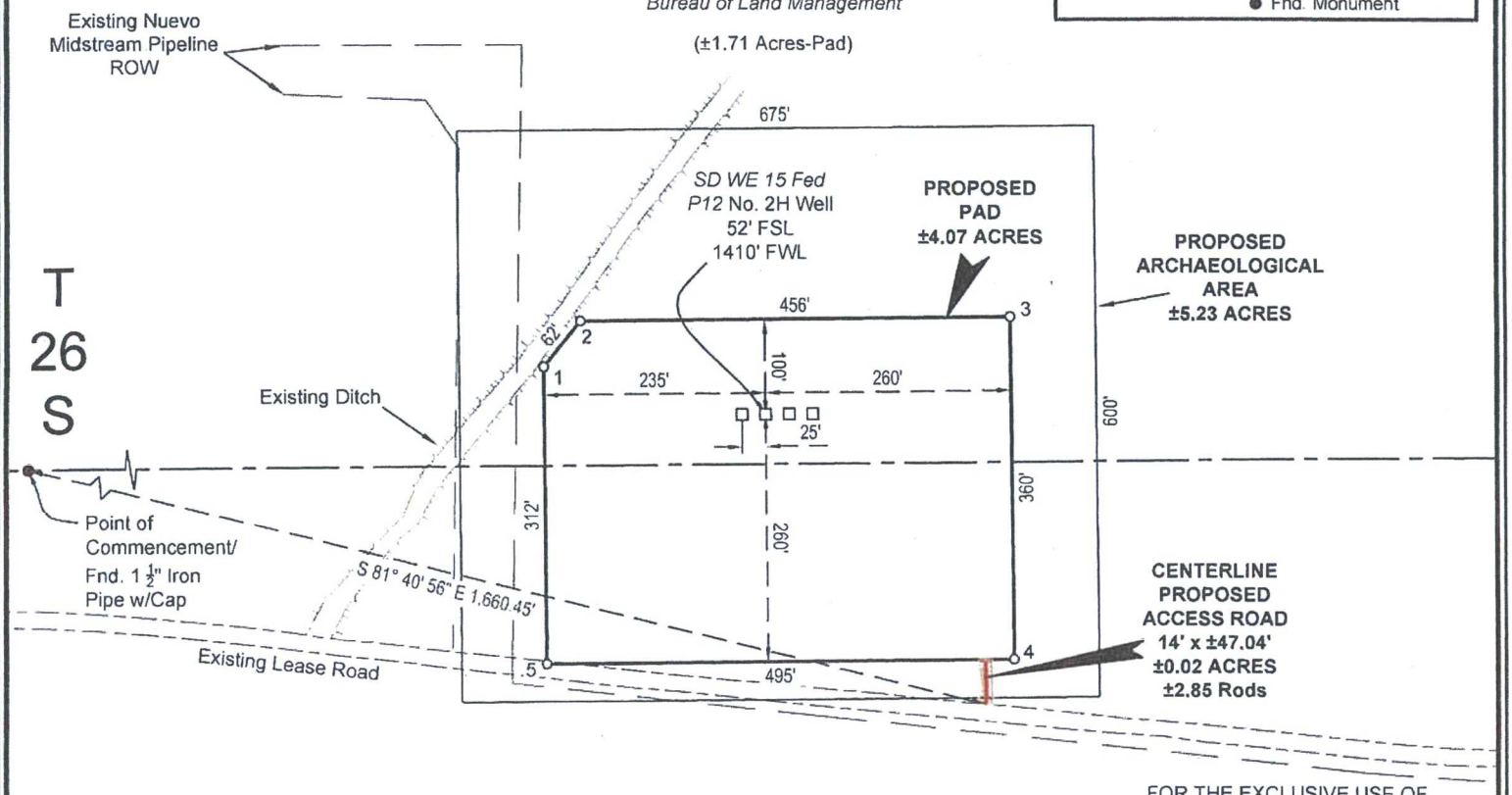
# R 32 E

## Sec. 15

*Bureau of Land Management*

(±1.71 Acres-Pad)

| LEGEND |
|---|
| Section Line |
| Existing ROW |
| Existing Ditch |
| Existing Lease Road |
| Centerline Access Road |
| ● Fnd. Monument |




## Sec. 22

*Bureau of Land Management*

(±2.36 Acres-Pad)

| NW ARCH. AREA CORNER | NE ARCH. AREA CORNER |
|---|---|
| X= 706,349 NAD 27 | X= 707,024 NAD 27 |
| Y= 377,611 | Y= 377,617 |
| **SE ARCH. AREA CORNER** | **SW ARCH. AREA CORNER** |
| X= 707,030 NAD 27 | X= 706,355 NAD 27 |
| Y= 377,017 | Y= 377,011 |
| **PAD CORNER 1** | **PAD CORNER 2** |
| X= 706,441 NAD 27 | X= 706,480 NAD 27 |
| Y= 377,364 | Y= 377,412 |
| ELEVATION +3146' NAVD 88 | ELEVATION +3146' NAVD 88 |
| **PAD CORNER 3** | **PAD CORNER 4** |
| X= 706,935 NAD 27 | X= 706,939 NAD 27 |
| Y= 377,417 | Y= 377,057 |
| ELEVATION +3148' NAVD 88 | ELEVATION +3146' NAVD 88 |

| PAD CORNER 5 |
|---|
| X= 706,444 NAD 27 |
| Y= 377,052 |
| ELEVATION +3144' NAVD 88 |

| SD WE 15 FED P12 NO. 2H WELL | |
|---|---|
| X= | 706,676 NAD 27 |
| Y= | 377,314 |
| LAT. | 32.035597 |
| LONG. | 103.666373 |
| X= | 747,863 NAD83 |
| Y= | 377,372 |
| LAT. | 32.035723 |
| LONG. | 103.666843 |
| ELEVATION +3147' NAVD 88 | |

NAD 27 NEW MEXICO EAST ZONE

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.

I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

ROBERT L. LASTRAPES NEW MEXICO 23006 PROFESSIONAL SURVEYOR

6-6-2016

Robert L. Lastrapes
Registration No. 23006

SURFACE USE PLAT

Scale: 1" = 200'

200' 0 100' 200'

# CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD
SD WE 15 FED P12 NO. 2H WELL
SECTIONS 15 & 22, T26S-R32E
LEA COUNTY, NEW MEXICO



FENSTERMAKER
C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax 337-232-3299
www.fenstermaker.com

| | | | |
|---|---|---|---|
| DRAWN BY: KJD | REVISIONS | | |
| PROJ. MGR.: VHV | No. 1 | DATE: 06/01/2016 | REVISED BY: BOR |
| DATE: JUNE 22, 2015 | No. | DATE: | REVISED BY: |
| FILENAME: T:\2015\2152216\DWG\SD WE 15 Fed P12 2H_SUP.dwg | | | |

DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

NOTE:
Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

NOTE:
Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance, New Mexico One Call. www.nmonecall.org

FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

ROBERT L. LASTRAPES
NEW MEXICO
23006
6-6-2016
PROFESSIONAL SURVEYOR

Robert L. Lastrapes
Registration No. 23006

SURFACE USE PLAT

# CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD
SD WE 15 FED P12 NO. 2H WELL
SECTIONS 15 & 22, T26S-R32E
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| | | | | |
|---|---|---|---|---|
| DRAWN BY: KJD | REVISIONS | | | |
| PROJ. MGR.: VHV | No. 1 | DATE: 06/01/2016 | REVISED BY: BOR | |
| DATE: JUNE 22, 2015 | No. | DATE: | REVISED BY: | |
| FILENAME: T:\2015\2152216\DWG\SD WE 15 Fed P12 2H_SUP.dwg | | | | |

# BLOWOUT PREVENTOR SCHEMATIC

## Minimum Requirements

**OPERATION** : Intermediate and Production Hole Sections

**Minimum System Pressure Rating** : **5,000 psi**

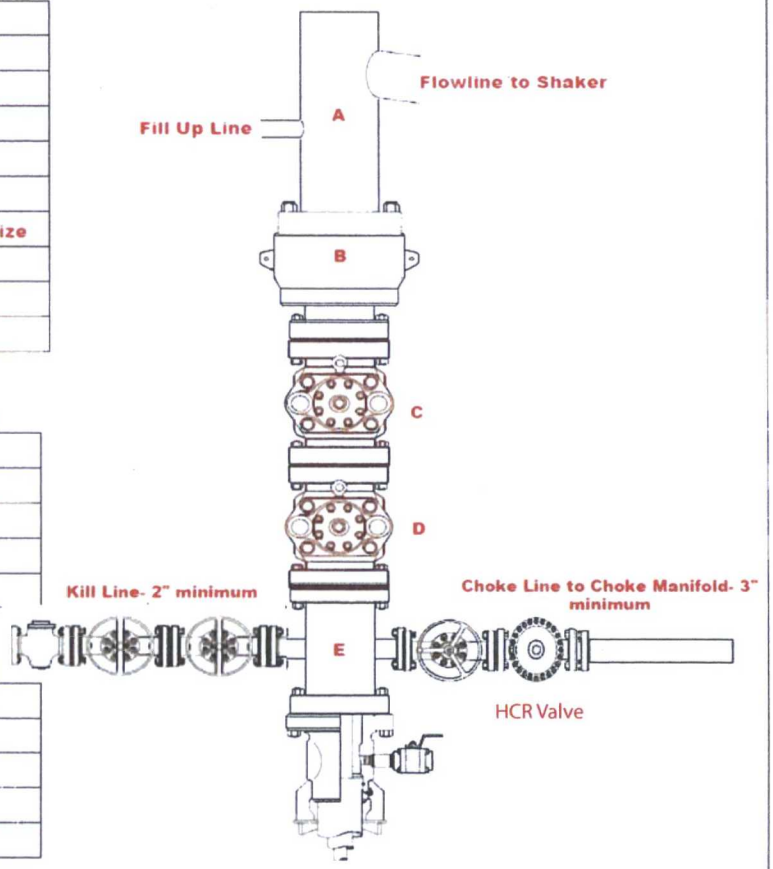
| | SIZE | PRESSURE | DESCRIPTION |
|---|---|---|---|
| A | | N/A | Bell Nipple |
| B | 13 5/8" | 5,000 psi | Annular |
| C | 13 5/8" | 5,000 psi | Pipe Ram |
| D | 13 5/8" | 5,000 psi | Blind Ram |
| E | 13 5/8" | 5,000 psi | Mud Cross |
| F | | | |
| DSA | | As required for each hole size | |
| C-Sec | | | |
| B-Sec | | 13-5/8" 5K x 11" 5K | |
| A-Sec | | 13-3/8" SOW x 13-5/8" 5K | |

### Kill Line

| SIZE | PRESSURE | DESCRIPTION |
|---|---|---|
| 2" | 5,000 psi | Gate Valve |
| 2" | 5,000 psi | Gate Valve |
| 2" | 5,000 psi | Check Valve |
| | | |
| | | |

### Choke Line

| SIZE | PRESSURE | DESCRIPTION |
|---|---|---|
| 3" | 5,000 psi | Gate Valve |
| 3" | 5,000 psi | HCR Valve |
| | | |
| | | |
| | | |




## 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.**
- ☐ **All valves on the kill line and choke line will be full opening and will allow straight though flow.**
- ☐ **The kill line and choke line will be straight unless turns use tee blocks or are targeted with running tess, 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:** _____

# CHOKE MANIFOLD SCHEMATIC

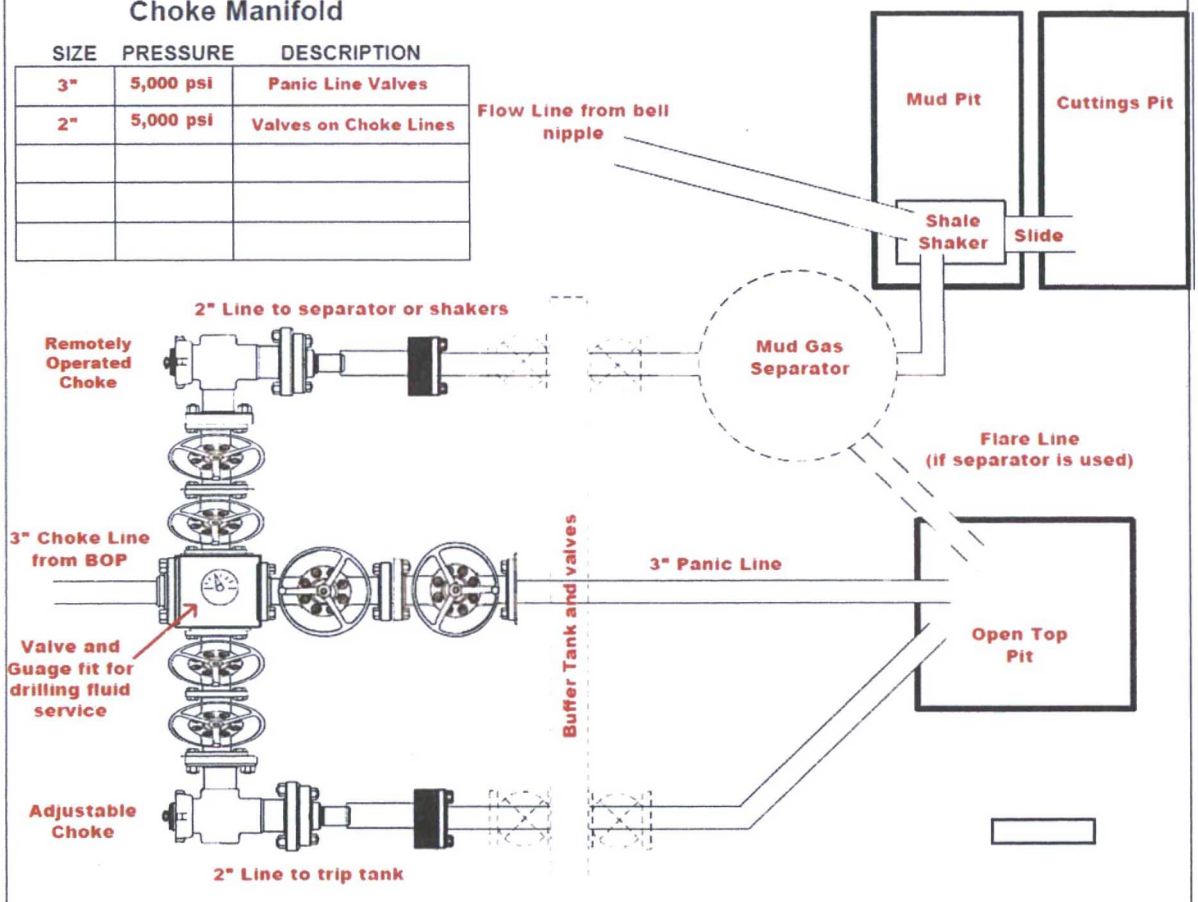
## Minimum Requirements

**OPERATION** : Intermediate and Production Hole Sections

**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 tess, and will be anchored to prevent whip and reduce vibration. This excludes the line between mud gas separator and shale shaker.
- ☐ 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:** _____

# BOPE Testing

## Minimum Requirements

### Closing Unit and Accumulator Checklist

**The following item must be performed, verified, and checked off at least once per well prior to low/high pressure testing of BOP equipment. This must be repeated after 6 months on the same well.**

☐ Precharge pressure for each accumulator bottle must fall within the range below. Bottles may be further charged with nitrogen gas only. Tested precharge pressures must be recorded for each individual bottle and kept on location through the end of the well. Test will be conducted prior to connecting unit to BOP stack.

| Check one that applies | Accumulator working pressure rating | Minimum acceptable operating pressure | Desired precharge pressure | Maximum acceptable precharge pressure | Minimum acceptable precharge pressure |
|---|---|---|---|---|---|
| ☐ | 1500 psi | 1500 psi | 750 psi | 800 psi | 700 psi |
| ☐ | 2000 psi | 2000 psi | 1000 psi | 1100 psi | 900 psi |
| ☐ | 3000 psi | 3000 psi | 1000 psi | 1100 psi | 900 psi |

☐ Accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if used), close all rams, close the annular preventer, and retain a minimum of 200 psi above the maximum acceptable precharge pressure (see table above) on the closing manifold without the use of the closing pumps. This test will be performed with test pressure recorded and kept on location through the end of the well

☐ Accumulator fluid reservoir will be double the usable fluid volume of the accumulator system capacity. Fluid level will be maintained at manufacturer's recommendations. Usable fluid volume will be recorded. Reservior capacity will be recorded. Reservoir fluid level will be recorded along with manufacturer's recommendation. All will be kept on location through the end of the well.

☐ Closing unit system will have two independent power sources (not counting accumulator bottles) to close the preventers.

☐ Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure decreases to the pre-set level. It is recommended to check that air line to accumulator pump is "ON" during each tour change.

☐ With accumulator bottles isolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 psi above maximum acceptable precharge pressure (see table above) on the closing manifold. Test pressure and closing time will be recorded and kept on location through the end of the well.

☐ Master controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all preventer and the choke line valve (if used)

☐ Remote controls for the BOPE system will be readily accessible (clear path) to the driller and located on the rig floor (not in the dog house). Remote controls will be capable of closing all preventers.

☐ Record accumulator tests in drilling reports and IADC sheet

### BOPE Test Checklist

**The following item must be ckecked off prior to beginning test**

☐ BLM will be given at least 4 hour notice prior to beginning BOPE testing

☐ Valve on casing head below test plug will be open

☐ Test will be performed using clear water.

**The following item must be performed during the BOPE testing and then checked off**

☐ BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 days intervals. Test pressure and times will be recorded by a 3rd party on a test chart and kept on location through the end of the well.

☐ Test plug will be used

☐ Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high).

☐ Annular type preventer will be tested to 250 psi (low) and 3,500 psi (high).

☐ Valves will be tested from the working pressure side with all down stream valves open. The check valve will be held open to test the kill line valve(s)

☐ Each pressure test will be held for 10 minutes with no allowable leak off.

☐ Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOP testing

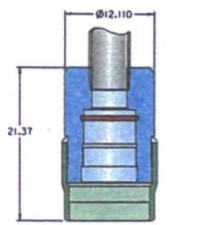
☐ Record BOP tests and pressures in drilling reports and IADC sheet

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer along with any/all BOP and accumulator test charts and reports from 3rd parties.

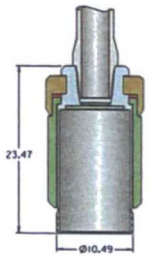
**Wellname:** _____

**Representative:** _____

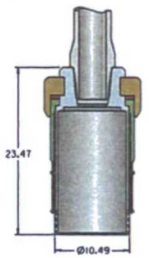
**Date:** _____



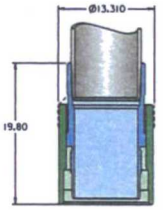

CASING HANGER R&R TOOL
9.750-4NA-2G-LH UNIBTM X 9.625 LC
P1000157868



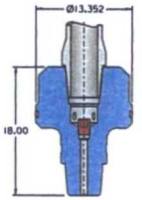

PACKOFF INSTALLATION TOOL,
F/ 13 5/8 UH-2 PACKOFF
P1000154374



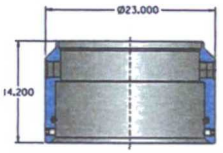

PACKOFF RETRIEVAL TOOL,
F/ 13 5/8 UH-2 PACKOFF
P1000154374




CASING HANGER R&R TOOL
P1000115382




BOP TEST PLUG
P4000029902




RISER ASSY. DIVERTER, 20 SO BTM
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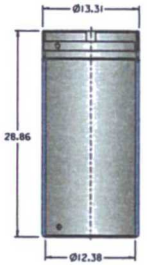
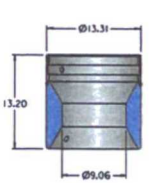
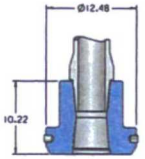


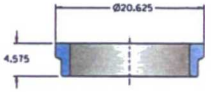

WEAR BUSHING (BOWL PROTECTOR)
P1000153633



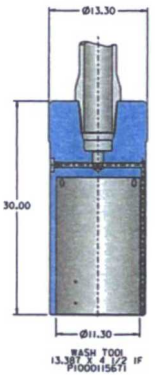

SHORT BOWL PROTECTOR
P1000153630



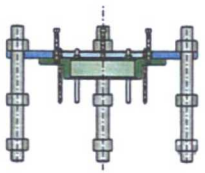

BOWL PROTECTOR R&R TOOL
48-291-312



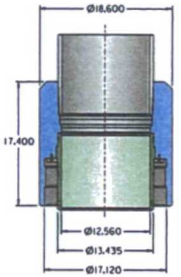

SWIVEL/ROTATING HUB
P1000101641



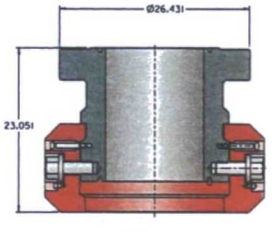

WASH TOOL
13.387 X 4 1/2 IF
P1000115671



INSTALLATION / REMOVAL TOOL ASSY,
PUSHER PLATE AND T-MANDREL
P1000136034




CASING HEAD RUNNING TOOL ASSY
P1000118117

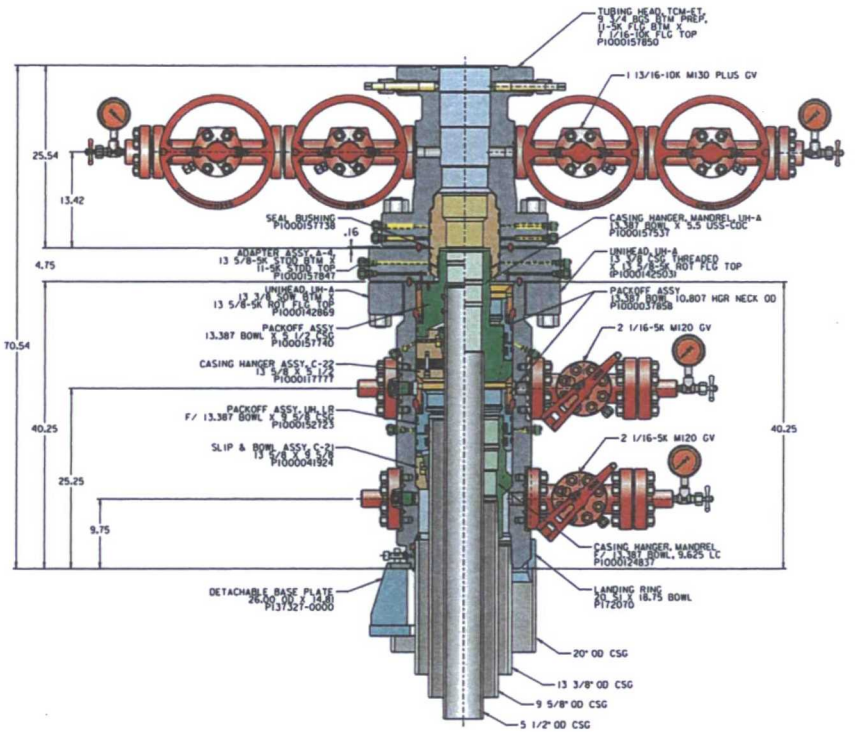



SPEEDLOC II
P111126-0000

BPV RUNNING TOOL
P178648

BPV REMOVAL TOOL
P410275

BPV, TYPE H
P126944-0000




20 X 13 3/8 X 9 5/8 X 5 1/2

# UH-2 Unihead

Odessa

13" Single Piece

FMC Technologies

We put you first.
And keep you ahead.