

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMLC071985

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

8. Well Name and No.
BATTLE AXE 27 FEDERAL COM 2H

9. API Well No.
30-025-42896-00-X1

10. Field and Pool, or Exploratory
WC-025 G08 S263205N

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
CONOCOPHILLIPS COMPANY

Contact: ASHLEY BERGEN
E-Mail: ashley.bergen@conocophillips.com

3a. Address
MIDLAND, TX 79710

3b. Phone No. (include area code)
Ph: 432-688-6983

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 27 T26S R32E NENE 283FNL 245FEL
32.011242 N Lat, 103.391794 W Lon

11. County or Parish, and State
LEA COUNTY, NM

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12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|--|---|---|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | Change to Original A PD |
| | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

ConocoPhillips Company respectfully requests to amend the approved APD. COP will be using rig, Precision 822 instead of Pinnergy #1 to pre-set surface casing and the 1st intermediate string. The 1st intermediate string will be set with a 10 3/4" casing size at approximately 4000'. The well above is planned to spud 11/17/15. Please see the following attachments:

- Spudder Rig and Skid Operations Description which includes the proposed casing and cementing program
- BOP/BOPE and Choke Manifold Schematic
- Coreflex Choke Line Test Certificate
- Spudder Rig Specifications/Layout
- Premium Connection Spec Sheets
- Wellhead Schematic

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #321733 verified by the BLM Well Information System
For CONOCOPHILLIPS COMPANY, sent to the Hobbs
Committed to AFMSS for processing by CHRISTOPHER WALLS on 11/05/2015 (16CRW0009SE)

Name (Printed/Typed) ASHLEY BERGEN Title STAFF REGULATORY TECH

Signature (Electronic Submission) Date 10/27/2015

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

/s/ Chris Walls
NOV 10 2015
Date

Approved By _____ Title _____

Conditions of approval, if any, are attached. Approval of this notice 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.

Office _____

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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.

** BLM REVISED **

NOV 23 2015

Sundry Notice Request
ConocoPhillips Company
Red Hills West; Wolfcamp
Battle Axe 27 Federal COM 2H

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Lea County, New Mexico

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ConocoPhillips Company respectfully requests to amend the approved permit to pre-set the surface and intermediate casings. The reasons would be to improve time and cost savings.

1. Spudder Rig and Skid Operations:

Precision Drilling #822 Rig will be used to drill the surface hole and intermediate hole (to set 1st intermediate casing string). BLM will be contacted / notified 24 hours prior to commencing spudder rig operations and expected to take 10-12 days for a dual pad.

Surface casing and intermediate casing will be preset on all the wells on the same pad. Both hole sections will be drilled, cased and cemented according to casing program based on the approved permit. All casing strings will be tested in accordance to the rules and regulations per Onshore Order.

The wellhead will be nipped up and tested as soon as 13-3/8" surface casing is cut off after the applicable WOC time has been reached. Prior to drilling out the 13-3/8" surface casing, ConocoPhillips shall nipple up a 3M BOPE & choke arrangement with 5M components and test to the rated working pressure of a 3M BOPE system as it is subjected to the maximum anticipated surface pressure 1,500 psi (0.33 psi/ft pressure gradient assuming fully evacuated) per Onshore Order 2. The pressure test to MASP and 50% for annular shall be performed with a test plug after installing the 13-5/8" casing head and nipping up the 3M BOPE system prior to drilling out the 13-3/8" surface casing.

A blind flange cap of the same pressure rating as the wellhead will be secured to seal the wellbore on all casing strings. Pressure will be monitored via flanged port tied to a needle valve and pressure gauge to monitor pressures on each wellhead section and a means for intervention will be maintained while the drilling rig is not over the well.

The drilling operation will re-commence with a big Drilling Rig (H&P Flex 3 rig type) and a BOP stack based on the approved permit will be nipped up and tested on the wellhead before drilling operations resumes on each well. The rig will skid between each well until each well's section has been drilled in this possible order:

1. **Move-in PD822 to Battle Axe 27 Federal COM 1H**
2. **Drill and pre-set Surface & Intermediate Casing**
3. **Skid to Battle Axe 27 Federal COM 2H**
4. **Drill and pre-set Surface & Intermediate Casing**
5. **Move-in H&P Flex 3 rig to Battle Axe 27 Federal COM 1H**
6. **Drill, Set & Cement Intermediate2 Casing**
7. **Skid to Battle Axe 27 Federal COM 2H**
8. **Drill, Set & Cement Intermediate2 Casing**
9. **Drill, Set & Cement Production Casing**
10. **Skid to Battle Axe 27 Federal COM 1H**
11. **Drill, Set & Cement Production Casing**

Rig move in to drill will depend on rig availability and APD approval date. Once "Spudder Rigs" has performed pre-set surface and intermediate, the "Big Drilling Rig" shall return to each well to drill the remain sections per conditions of approval.

2. Proposed Casing and Cementing Program – Option to Preset 10-3/4" Casing at Delaware

ConocoPhillips Company respectfully requests the option to Preset 10-3/4" 45.5# J-55 TSH-W511 (Flushed Connection) Casing. The intent of the 10-3/4" intermediate casing and cementing program is to drill 9-7/8" hole and run 7-5/8" 29.7# P-110 BTC, later on, thus would improve time and cost savings.

All Tubulars used for this design will be new. A multi-bowl system will be utilized. **Option to Preset 10-3/4" will be as follows:**

See
Cost

| Hole Size (in) | Casing (in) | Wt/Ft | Grade | Connection | Thread & Cplg OD | Depth (ft) | Depth (ftTVD) | Depth (ftMD) | BOPE System |
|----------------|---------------|-------------|-------------|---------------------|------------------|-------------------------------|---------------|--------------|-------------|
| 17 1/2 | 13 3/8 | 54.5 | J-55 | BTC | 14.375 | 0-950 660 | 950 | 950 | N/A |
| 12 1/4 | 10-3/4 | 45.5 | J-55 | Tenaris W511 | 10.75 | 0-4000 4480 | 4000 | 4000 | 3M |
| 9-7/8 | 7 5/8 | 29.7 | P-110 | BTC | 7.752 | 0-12000 | 11900 | 12000 | 5M |
| 6 3/4 | 5 | 18 | P-110 | Tenaris Blue/TXP | 5.720 | 0-19300 | 12085 | 19300 | 10M |

Minimum casing design factors: Burst 1.0, Collapse 1.125, Tensile Strength 1.6 Dry / 1.0 Buoyant

| Hole Size (in) | Casing (in) | Burst | Collapse | Tension | Minimum Clearance |
|----------------|---------------|-------------|---------------|-------------|-------------------|
| 17 1/2 | 13 3/8 | 5.94 | 2.46 | 19.2 | 1.5625 |
| 12 1/4 | 10-3/4 | 1.64 | **2.82 | 2.10 | 0.75 |
| 9-7/8 | 7-5/8 | 1.7 | **2.48 | 2.10 | 0.6875 |
| 6 3/4 | 5 | 1.58 | 1.53 | 3.39 | 0.515 |

**COP Collapse Design
Mud drop to hydrostatic column equilibrium with pore pressure of lost circulation zone.

| | Volume (sx) | Type | Weight (ppg) | Yield (ft3/sx) | Water (Gal/sx) | Excess | Cement Top |
|--|-------------|------------|--------------------|----------------|----------------|--------------|----------------|
| Surface | <i>Lead</i> | 530 | Class C | 13.6 | 1.73 | 10.88 | Surface |
| | <i>Tail</i> | 310 | Class C | 14.8 | 1.35 | 6.39 | 650ft |
| Additives (BWOB): 4% Extender, 2% CaCl2, 0.125 lb/sx LCM, 0.2% Anti-Foam | | | | | | | |
| Intermediate 1 | <i>Lead</i> | 690 | Tuned Light | 11.9 | 1.91 | 11.85 | Surface |
| | <i>Tail</i> | 140 | Class C | 14.8 | 1.33 | 8.23 | 3500ft |
| Additives (BWOB): 4% Extender, 2% CaCl2, 0.125 lb/sx LCM, 0.2% Anti-Foam | | | | | | | |
| Intermediate 2 | <i>Lead</i> | 900 | Tuned Light | 9.7 | 2.44 | 9.116 | Surface |
| | <i>Tail</i> | 140 | TXI | 13.2 | 1.53 | 7.474 | 12000ft |
| Additives (BWOB): 0.4% Dispersant, 1 lb/sx Salt, 0.1% Retarder, 0.5% Fluid Loss, 3 lb/sx LCM | | | | | | | |
| Production | <i>Lead</i> | | | | | | |
| | <i>Tail</i> | 750 | Class H | 15 | 1.14 | 3.216 | 11400ft |
| Additives (BWOB): 0.4% Retarder, 0.2% Anti-foam, 0.7 Anti-gelling, 0.4% Fluid Loss, 2% Expanding Agent, 5.0% Silica | | | | | | | |

2. Pressure Control Equipment:

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | Type | ✓ | Tested to: |
|--|---------|------------------|------------|---|-------------------------|
| 12-1/4" | 13-5/8" | 3M | Annular | x | 50% of working pressure |
| | | | Blind Ram | | ± 1,500 psi |
| | | | Pipe Ram | | |
| | | | Double Ram | x | |
| | | | Other* | | |

*Specify if additional ram is utilized.

See COA for Pressure Control Requirements below 10 3/4" casing

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

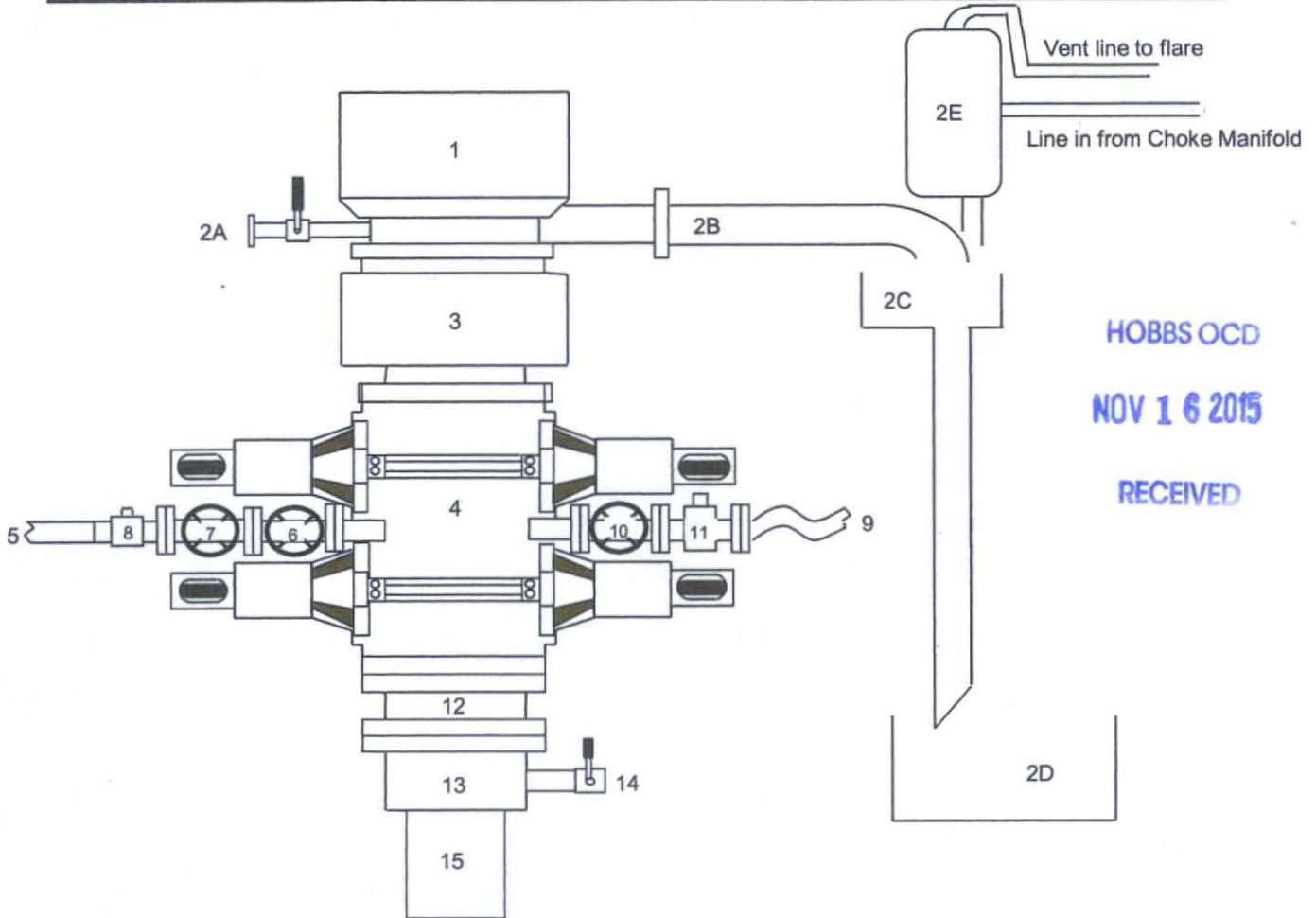
| | |
|---|---|
| X | Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i. |
| X | A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. |
| N | Are anchors required by manufacturer? |
| X | A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. • Provide description here See attached schematic. |

Attachments:

- Attachment # 1 BOP/BOPE and Choke Manifold Schematic
- Attachment # 2 Coflex Choke Line Test Certificate
- Attachment # 3 Spudder Rig Specifications/Layout
- Attachment # 4 Premium Connection Spec Sheets
- Attachment # 5 Wellhead Schematic

Sundry request proposed 19 October 2015 by:
James Chen, P.E.
Drilling Engineer | ConocoPhillips Permian Shale
Office Phone: 281.206.5244
Cell Phone: 832.768.1647

BLOWOUT PREVENTER ARRANGEMENT
 3M System per Onshore Oil and Gas Order No. 2 utilizing 3M and 5M Rated Equipment



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| Item | Description |
|------|---|
| 1 | Rotating Head, 13-5/8" |
| 2A | Fill up Line and Valve |
| 2B | Flow Line (10") |
| 2C | Shale Shakers and Solids Settling Tank |
| 2D | Cuttings Bins for Zero Discharge |
| 2E | Rental Mud Gas Separator with vent line to flare and return line to mud system |
| 3 | Annular BOP (13-5/8", 5M) |
| 4 | Double Ram (13-5/8", 5M, equipped with Blind Rams and Pipe Rams) |
| 5 | Kill Line (2" flexible hose, 3000 psi WP) |
| 6 | Kill Line Valve, Inner (3-1/8", 3000 psi WP) |
| 7 | Kill Line Valve, Outer (3-1/8", 3000 psi WP) |
| 8 | Kill Line Check Valve (2-1/16", 3000 psi WP) |
| 9 | Choke Line (5M Stainless Steel Coflex Line, 3-1/8" 3M API Type 6B, 3000 psi WP) |
| 10 | Choke Line Valve, Inner (3-1/8", 3000 psi WP) |
| 11 | Choke Line Valve, Outer, (Hydraulically operated, 3-1/8", 3000 psi WP) |
| 12 | Spacer Spool (13-5/8", 5M) |
| 13 | Casing Head (13-5/8" 5M) |
| 14 | Ball Valve and Threaded Nipple on Casing Head Outlet, 2" 5M |
| 15 | Surface Casing |

James Chen, P.E.
 Drilling Engineer | ConocoPhillips Permian Shale
 Office Phone 281.206.5244
 Cell Phone 832.768.1647



2030 E. 8th Street, Suite B • Greeley, CO 80631
Ph: (970) 346-3751 • Fax: (970) 353-3168 • Toll Free: (866) 771-9739

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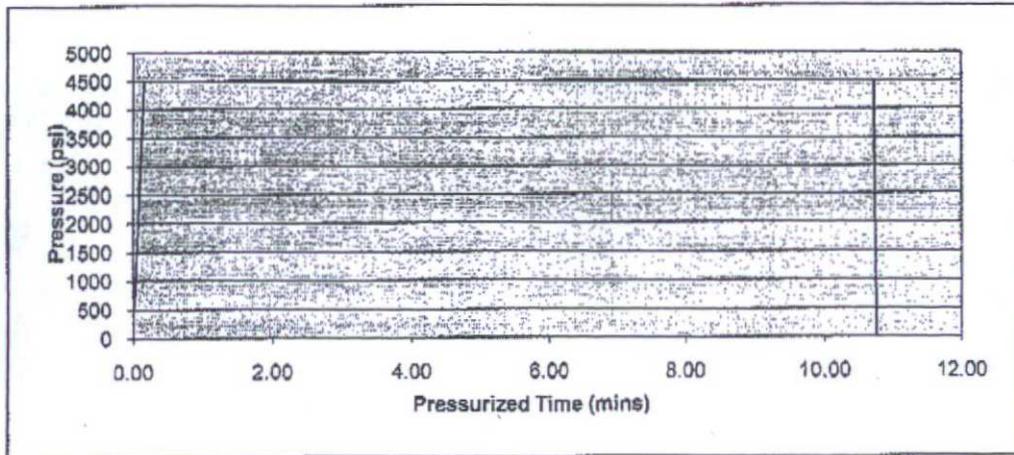
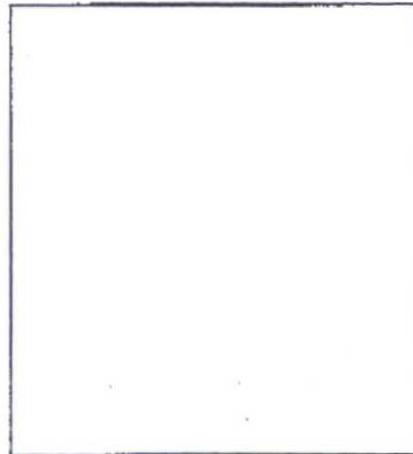
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TEST CERTIFICATE

Customer: PERCISION DRILLING
 P.O. #: 73011111
 Invoice #: 25279
 Material: 3 1/2" FIRE GUARD
 Description: 2" X 30'
 Coupling 1: FLOATING FLANGE
 " Serial:
 " Quality:
 Coupling 2: FLANGE
 " Serial:
 " Quality:
 Working Pressure : 3000
 Test Pressure: 4500
 Duration (mins): 10

Cert No.: 25279TO1
 Date: 6/29/2012

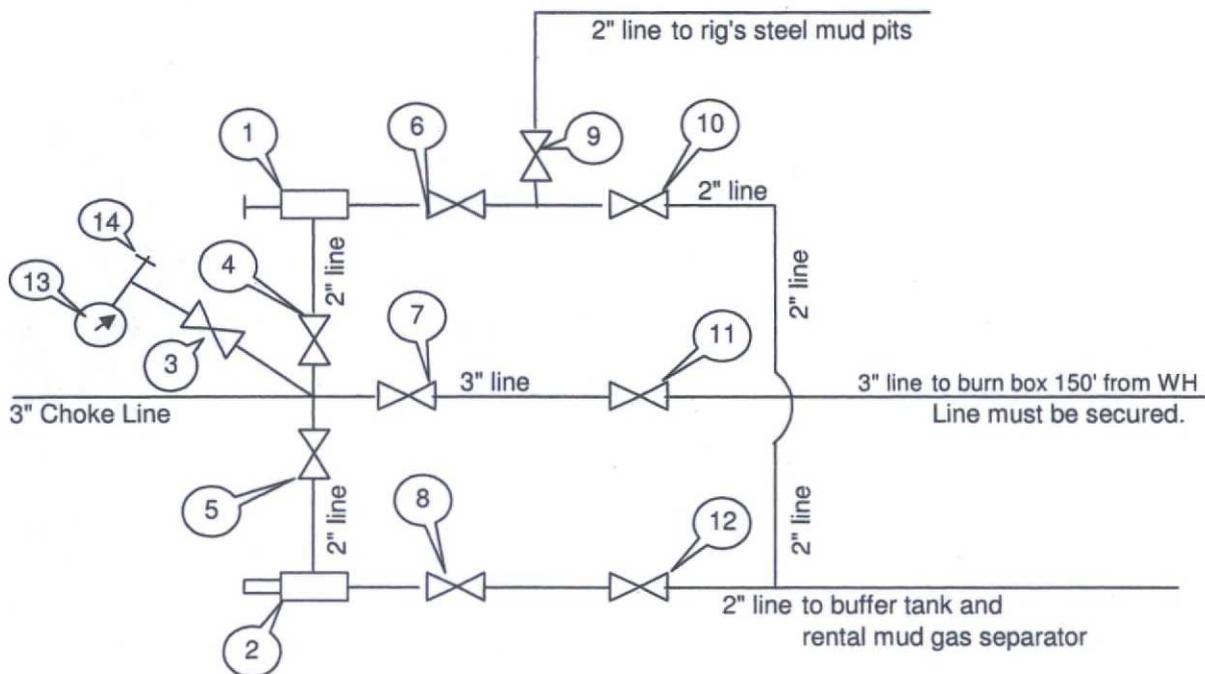


Conducted By: FLORES M.
 Test Technician

- Acceptable
- Not Acceptable

CHOKE MANIFOLD ARRANGEMENT

3M System per Onshore Oil and Gas Order No. 2 utilizing 3M and 5M Equipment



All Tees must be targeted

| Item | Description |
|------|--|
| 1 | Manual Adjustable Choke, 2-1/16", 3M |
| 2 | Remote Controlled Hydraulically Operated Adjustable Choke, 2-1/16", 3M |
| 3 | Gate Valve, 2-1/16" 5M |
| 4 | Gate Valve, 2-1/16" 5M |
| 5 | Gate Valve, 2-1/16" 5M |
| 6 | Gate Valve, 2-1/16" 5M |
| 7 | Gate Valve, 3-1/8" 3M |
| 8 | Gate Valve, 2-1/16" 5M |
| 9 | Gate Valve, 2-1/16" 5M |
| 10 | Gate Valve, 2-1/16" 5M |
| 11 | Gate Valve, 3-1/8" 3M |
| 12 | Gate Valve, 2-1/16" 5M |
| 13 | Pressure Gauge |
| 14 | 2" hammer union tie-in point for BOP Tester |

We will test each valve to 3000 psi from the upstream side.

Submitted by:

James Chen

Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company

Date: 21-March-2013



Rig Inventory and Layout

RIG 822SSE

Active

| | | | |
|-------------------------------|-----------------------|--------------------|------------------------|
| Rig # | 822 | Rig Type | Super Single™ Electric |
| Superintendent | Johnny Ison | Operation Centre | Mid Continent |
| Category | Electric | Rig Type Code | SSE |
| Loads Winter (include boiler) | 21 | Class | Super Singles |
| Rated Vertical Depth (ft) | 10000 | Horse Power Range | 1000 - 1200 |
| Region | US Operations Group 1 | Rig Locator Status | |
| Company | PDOS | Rig Phone Number | 817-694-6797 |
| | | Plant Code | 1505 |
| Rated with Drill Pipe (in) | 4 1/2 | | |

DRAWWORKS

| | | | |
|----------------------------|--------------------------|--------------------------|------|
| Mechanical/Electric | VFD | Auxiliary Brake | N/A |
| Drawworks | Alta-Rig ARS-1201-AC | Rated Power (hp) | 1200 |
| Drawworks Capacity (lbs) | 320000 | Number of lines | 8 |
| Drawworks Drive (Quantity) | Baylor CM628TUT (AC) (1) | Rating (hp) - Each Motor | 1230 |

MAST

| | | | |
|------------------------|--------|------------------------|--------|
| Mast Type | Single | Manufacturer | |
| Static Hook Load (lbs) | 299000 | Mast Clear Height (ft) | 75' |
| Drill Line Size (in) | 1 | Number of lines | 8 |
| Drill Line SF=2 (lbs) | 348300 | Drill Line SF=3 (lbs) | 232200 |

SUBSTRUCTURE

| | | | |
|-----------------------|------------------|------------------------------|---------------|
| Substructure Type | Trailer | Manufacturer | |
| Floor Height (ft) | 10' 10" - 12' 6" | Kelly Bushing to Ground (ft) | |
| Clear Height (ft) | 8' 6" - 10' 2" | | |
| Rotary Capacity (lbs) | 299000 | Setback Capacity (lbs) | No Limitation |

This Rig Type is Equipped with a Pipe Arm

HOISTING AND ROTATING EQUIPMENT

| | | | |
|--------------------|----------------------------|-----------------------------|--------|
| Top Drive Model | Precision/Rostel PDCA50/70 | Top Drive Capacity (tons) | 150 |
| Rotary Table Model | Slip Table | Rotary Table Capacity (lbs) | 200000 |
| | | Rotary Table Clearance (in) | 20-1/2 |
| Power Wrench Model | W-N Apache 90-70 | Maximum Diameter (in) | 11-3/4 |

RIG 822SSE

MUD PUMPS AND MUD SYSTEM

MUD PUMP 1

| | | | |
|---------------------------|----------------------------|--------------------------|------|
| Manufacturer & Model | BPMMP - BSF-1000 (Triplex) | Rated Power (hp) | 1000 |
| Stroke (in) | 10 | | |
| Mud Pump Drive (Quantity) | Baylor CM628TUT (AC) (1) | Rating (hp) - Each Motor | 1230 |

MUD PUMP 2

| | | | |
|---------------------------|----------------------------|--------------------------|------|
| Manufacturer & Model | BPMMP - BSF-1000 (Triplex) | Rated Power (hp) | 1000 |
| Stroke (in) | 10 | | |
| Mud Pump Drive (Quantity) | Baylor CM628TUT (AC) (1) | Rating (hp) - Each Motor | 1230 |

MUD SYSTEM

| | | | |
|-----------------------------|---|---|---------------------------------|
| Mud Tank Total Volume (bbl) | 360 | # of Mud Tanks | 1 |
| Premix Tank Volume (bbl) | | Pill Tank Volume (bbl) | 9.4 |
| Trip Tank Volume (bbl) | 15.7 | Trip Tank Surface Area (ft ²) | 18.3 |
| Centrifugal Pump Quantity: | 2 | Centrifugal Pump Size | 5 x 6 |
| Shale Shaker Quantity | 1 | Shale Shaker | Brandt King Cobra Linear Motion |
| Atmospheric Degasser | Single - 30 in OD 3 in Inlet 8 in Vent Line | | |
| Additional Information | | | |

WELL CONTROL SYSTEM

| | | | |
|-----------------------------|------------------------|----------------------------|----------|
| Annular | Townsend Type-90 | Pressure Rating (psi) | 3000 |
| | | Size (in) | 11 |
| Rams | | | |
| Ram 1 | Townsend T-82 - Single | Pressure Rating (psi) | 3000 |
| | | Size (in) | 11 |
| Ram 2 | Townsend T-82 - Single | Pressure Rating (psi) | 3000 |
| | | Size (in) | 11 |
| Trim Type | Nace | BOP Additional Information | |
| Accumulator Manufacturer | E.C.S. | Remote Panel Type | Electric |
| Accumulator Volume (gal-US) | 84 | # of Stations: | 5 |
| Accumulator Pumps | | | |
| Choke Manifold Style (in) | 2 x 3 x 2 | Pressure Rating (psi) | 3000 |

Well control equipment listed is rig's normal inventory. Well control equipment is subject to change; Operator should confirm current configuration and specific requirements with the Precision Drilling Contracts Representative.

RIG 822SSE

ELECTRICAL POWER

Power Distribution Type 3 Diesel Electric Generators, each with Ross Hill 1402 Generator Bays powering 4 ABB ASC800 Drive Bays & Allen Bradley MCC

POWER GENERATION

| Power Generators | | | | | |
|------------------|---|-----------------|----------|-----------------------|-----|
| Quantity | 2 | Generator Drive | CAT C-32 | Generator Rating (kW) | 810 |
| Quantity | 1 | Generator Drive | CAT C-18 | Generator Rating (kW) | 545 |

MISCELLANEOUS EQUIPMENT

| | | | |
|-------------------|---|-----------------------------------|------|
| Winterization | N/A | Boiler Rating (hp) | |
| Fuel Tank Qty | 1 | Total Fuel Tank Capacity (gal-US) | 5200 |
| Water Tank Qty | 1 | Total Water Tank Capacity (bbl) | 375 |
| Special Equipment | Hydraulic BOP Handler, Hydraulic Catheads, Hydraulic Catwalk, Hydraulic Pipe Arm, Power Tong, Substructure Leveling Jacks | | |

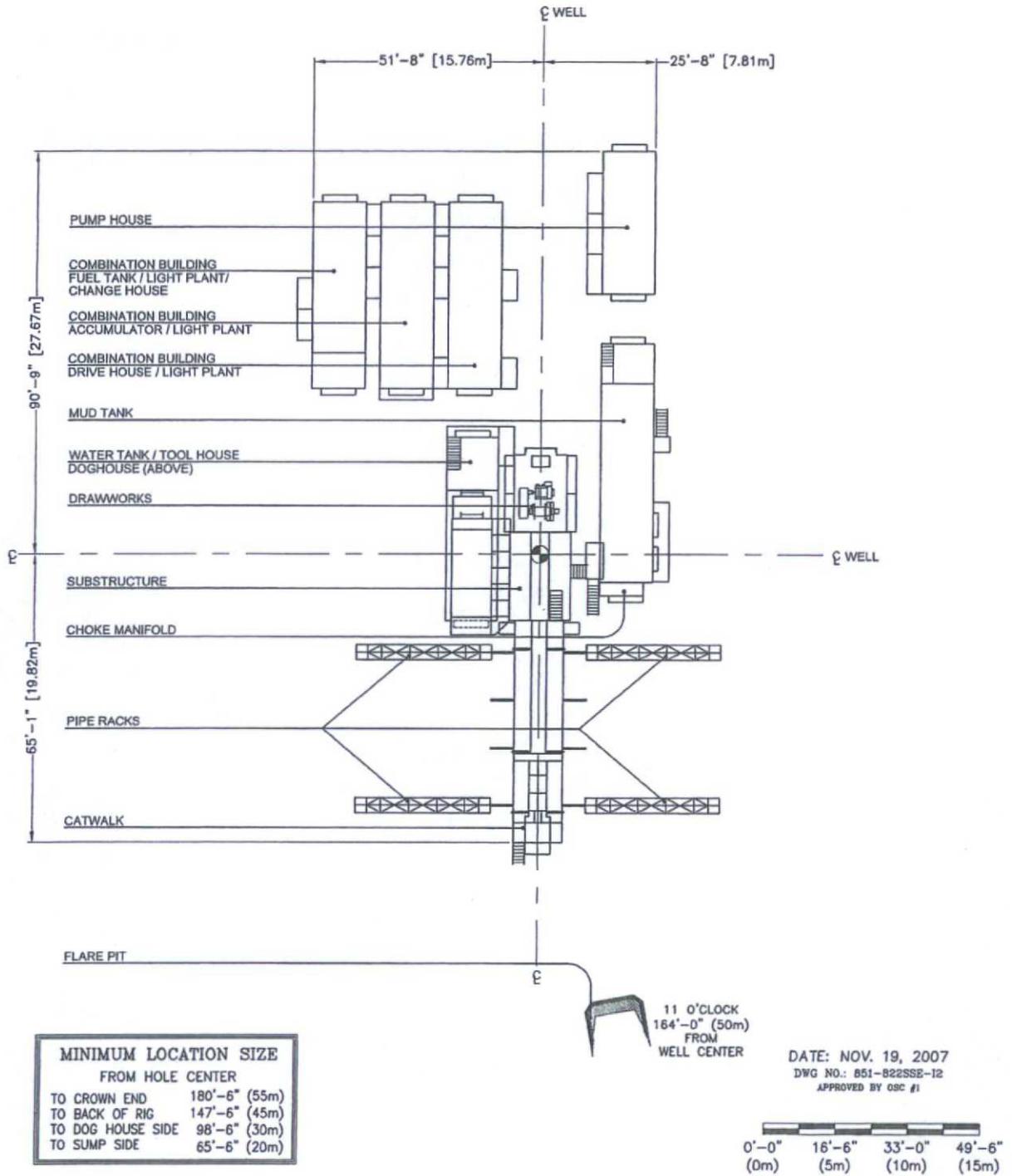
NOTES

TUBULARS

As the selection of tubulars is dependant on the planned well program, specific requirements are to be discussed with the contracts representative of Precision Drilling. Exact quantities and descriptions of the selected tubulars are available upon request.

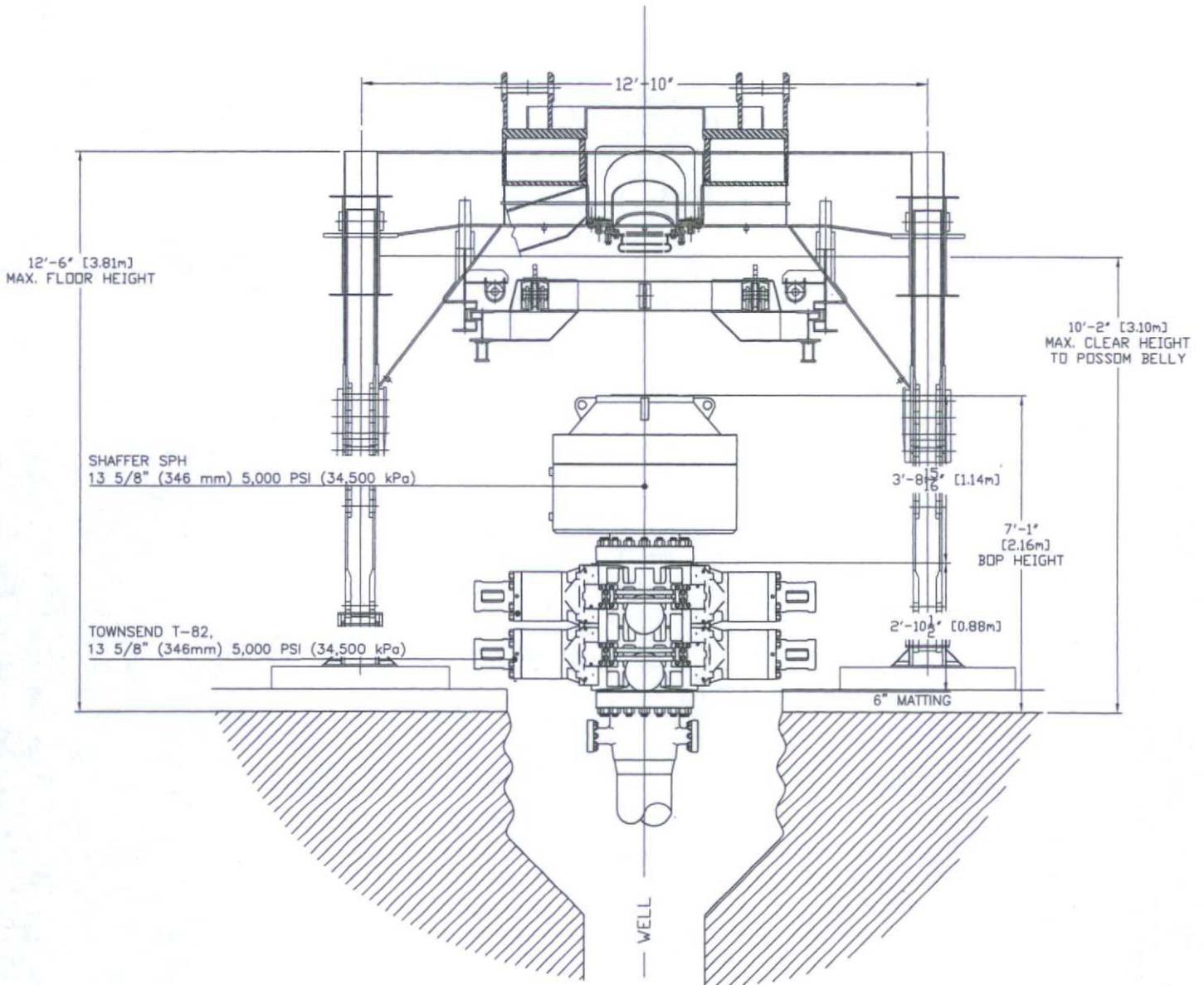
RIG LAYOUT

RIG 822SSE



PRECISION DRILLING

CALGARY, ALBERTA, CANADA



NOTE: STACK SHOWN IN VERTICAL POSITION FOR CLARITY

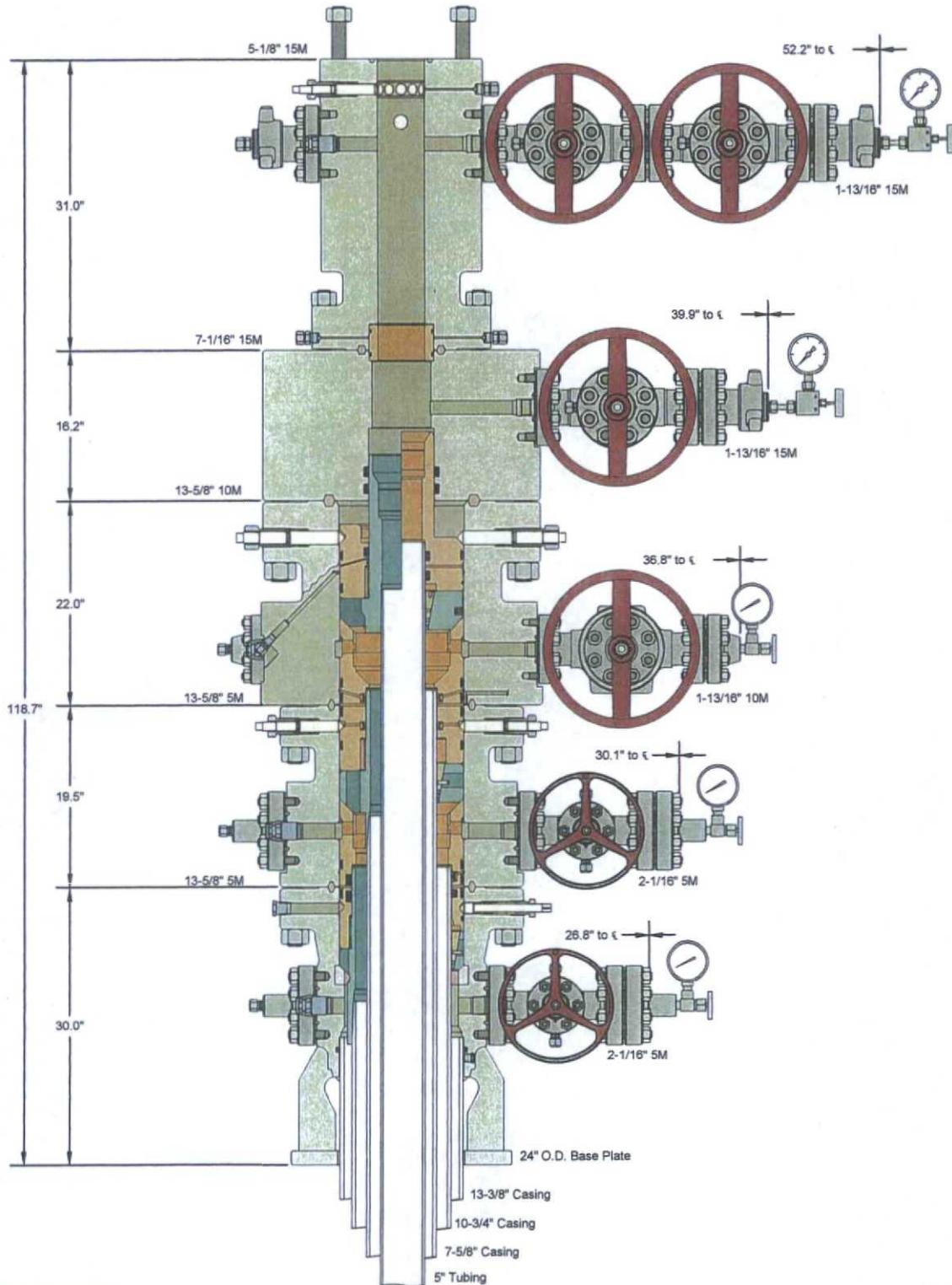
STACK COMPONENTS REPRESENTED ARE SUBJECT TO AVAILABILITY, PLEASE CONFIRM WITH WELL CONTROL DEPARTMENT MANAGER.



EQUIPMENT REPRESENTATION ONLY
NOT DRAWN TO SCALE

PRECISION DRILLING

DATE: 2015/10/05
DWG No.: BOP-822-006
DWG BY: CTJ



ALL DIMENSIONS ARE APPROXIMATE

This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.

CONOCOPHILLIPS COMPANY

13-3/8" x 10-3/4" x 7-5/8" x 5" 15M SH2/3STG Wellhead
 Assembly, With DSPA-DBLEBS and MTH-2FB Tubing Head

| | | |
|--------------------|----------|---------|
| DRAWN | CDG | 14OCT15 |
| APPRV | VJK | 15OCT15 |
| FOR REFERENCE ONLY | | |
| DRAWING NO. | 10010485 | |

For the latest performance data, always visit our website: www.tenaris.com

October 12 2015



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Connection: Wedge 511™
Casing/Tubing: CAS

Size: 10.750 in.
Wall: 0.400 in.
Weight: 45.50 lbs/ft
Grade: J55
Min. Wall Thickness: 87.5 %

PIPE BODY DATA

| GEOMETRY | | | |
|---------------------|----------------|-------------------------|--------------|
| Nominal OD | 10.750 in. | Nominal Weight | 45.50 lbs/ft |
| Nominal ID | 9.950 in. | Wall Thickness | 0.400 in. |
| Plain End Weight | 44.26 lbs/ft | | |
| | | Standard Drift Diameter | 9.794 in. |
| | | Special Drift Diameter | 9.875 in. |
| PERFORMANCE | | | |
| Body Yield Strength | 715 x 1000 lbs | Internal Yield | 3580 psi |
| Collapse | 2090 psi | SMYS | 55000 psi |

WEDGE 511™ CONNECTION DATA

| GEOMETRY | | | |
|----------------------------|----------------|----------------------------|----------------|
| Connection OD | 10.750 in. | Connection ID | 9.922 in. |
| Critical Section Area | 7.671 sq. in. | Threads per in. | 3.28 |
| | | Make-Up Loss | 3.700 in. |
| PERFORMANCE | | | |
| Tension Efficiency | 59.0 % | Joint Yield Strength | 422 x 1000 lbs |
| Compression Strength | 505 x 1000 lbs | Compression Efficiency | 70.6 % |
| External Pressure Capacity | 2090 psi | Internal Pressure Capacity | 3360 psi |
| | | Bending | 14 °/100 ft |

MAKE-UP TORQUES

| | | | | | |
|---------|--------------|---------|--------------|-------------|--------------|
| Minimum | 11000 ft-lbs | Optimum | 13200 ft-lbs | Maximum (⚠) | 19300 ft-lbs |
|---------|--------------|---------|--------------|-------------|--------------|

OPERATIONAL LIMIT TORQUES

| | | | |
|------------------|--------------|--------------|--------------|
| Operating Torque | 49000 ft-lbs | Yield Torque | 74000 ft-lbs |
|------------------|--------------|--------------|--------------|

BLANKING DIMENSIONS

October 21 2014



Connection: Blue®
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.000 in.
Wall: 0.362 in.
Weight: 18.00 lbs/ft
Grade: P110
Min. Wall Thickness: 87.5 %

PIPE BODY DATA

| GEOMETRY | | | |
|------------------|--------------|-------------------------|--------------|
| Nominal OD | 5.000 in. | Nominal Weight | 18.00 lbs/ft |
| Nominal ID | 4.276 in. | Wall Thickness | 0.362 in. |
| Plain End Weight | 17.95 lbs/ft | Standard Drift Diameter | 4.151 in. |
| | | Special Drift Diameter | N/A |

PERFORMANCE

| | | | | | |
|---------------------|----------------|----------------|-----------|------|------------|
| Body Yield Strength | 580 x 1000 lbs | Internal Yield | 13940 psi | SMYS | 110000 psi |
| Collapse | 13470 psi | | | | |

BLUE® CONNECTION DATA

| GEOMETRY | | | |
|-----------------------|---------------|-----------------|------------|
| Connection OD | 5.630 in. | Coupling Length | 10.551 in. |
| Critical Section Area | 5.275 sq. in. | Make-Up Loss | 4.579 in. |
| | | Connection ID | 4.264 in. |
| | | Threads per in. | 5.00 |

PERFORMANCE

| | | | | | |
|----------------------------|-----------|----------------------|----------------|----------------------------|--------------|
| Tension Efficiency | 100 % | Joint Yield Strength | 580 x 1000 lbs | Internal Pressure Capacity | 13940 psi |
| Compression Efficiency | 100 % | Compression Strength | 580 x 1000 lbs | Bending | 101 °/100 ft |
| External Pressure Capacity | 13470 psi | | | | |

MAKE-UP TORQUES

| | | | | | |
|---------|-------------|--------|-------------|---------|-------------|
| Minimum | 6400 ft-lbs | Target | 7110 ft-lbs | Maximum | 7820 ft-lbs |
|---------|-------------|--------|-------------|---------|-------------|

OPERATIONAL LIMIT TORQUES

| | | | |
|------------------|-----|--------------|--------------|
| Operating Torque | ASK | Yield Torque | 17600 ft-lbs |
|------------------|-----|--------------|--------------|

SHOULDER TORQUES

| | | | |
|---------|-------------|---------|-------------|
| Minimum | 1070 ft-lbs | Maximum | 6040 ft-lbs |
|---------|-------------|---------|-------------|

December 18 2014



Connection: TenarisXP™ BTC
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.000 in.
Wall: 0.362 in.
Weight: 18.00 lbs/ft
Grade: P110
Min. Wall Thickness: 87.5 %

| PIPE BODY DATA | | | | | |
|--|----------------|---------------------------------|----------------|---|--------------|
| GEOMETRY | | | | | |
| Nominal OD | 5.000 in. | Nominal Weight | 18.00 lbs/ft | Standard Drift Diameter | 4.151 in. |
| Nominal ID | 4.276 in. | Wall Thickness | 0.362 in. | Special Drift Diameter | N/A |
| Plain End Weight | 17.95 lbs/ft | | | | |
| PERFORMANCE | | | | | |
| Body Yield Strength | 580 x 1000 lbs | Internal Yield | 13940 psi | SMYS | 110000 psi |
| Collapse | 13470 psi | | | | |
| TENARISXP™ BTC CONNECTION DATA | | | | | |
| GEOMETRY | | | | | |
| Connection OD | 5.720 in. | Coupling Length | 9.325 in. | Connection ID | 4.264 in. |
| Critical Section Area | 5.275 sq. in. | Threads per in. | 5.00 | Make-Up Loss | 4.141 in. |
| PERFORMANCE | | | | | |
| Tension Efficiency | 100 % | Joint Yield Strength | 580 x 1000 lbs | Internal Pressure Capacity ⁽¹⁾ | 13940 psi |
| Structural Compression Efficiency | 100 % | Structural Compression Strength | 580 x 1000 lbs | Structural Bending ⁽²⁾ | 101 °/100 ft |
| External Pressure Capacity | 13470 psi | | | | |
| ESTIMATED MAKE-UP TORQUES ⁽³⁾ | | | | | |
| Minimum | N/A ft-lbs | Target | N/A ft-lbs | Maximum | N/A ft-lbs |
| OPERATIONAL LIMIT TORQUES | | | | | |
| Operating Torque | ASK | Yield Torque | N/A ft-lbs | | |
| BLANKING DIMENSIONS | | | | | |

NOV 16 2015

PECOS DISTRICT CONDITIONS OF APPROVAL

RECEIVED

| | |
|-----------------------|------------------------------|
| OPERATOR'S NAME: | ConocoPhillips Co |
| LEASE NO.: | LC071985 |
| WELL NAME & NO.: | 2H-Battle Axe 27 Federal Com |
| SURFACE HOLE FOOTAGE: | 283'/N & 245'/E |
| BOTTOM HOLE FOOTAGE: | 50'/S & 710'/E, sec. 34 |
| LOCATION: | Sec. 27, T. 26 S., R. 32 E. |
| COUNTY: | Lea County, New Mexico |

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 393-3612

1. A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. **As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
2. Setting surface and 1st intermediate casing with Precision Rig
 - a. Notify the BLM when removing the Precision Rig.
 - b. Notify the BLM when moving in the H&P Flex Rig. Rig to be moved in within 90 days of notification that Precision Rig has left the location. Failure to notify or have rig on location within 90 days will result in an Incident of Non-Compliance.
 - c. Once the H&P Flex Rig is on location, it will drill the Battle Axe 27 Fed Com 1H and 2H in conjunction using batch drilling.

- d. BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as H&P Flex Rig is rigged up on well. CIT for the intermediate casing shall be performed and results recorded on subsequent sundry.
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.**

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst.

Abnormal pressures may occur in the Wolfcamp.

Possible water flows in the Salt and the Castile.

Possible lost circulation in the Delaware.

1. The 13-3/8 inch surface casing shall be set at approximately 660 feet (**in a competent bed below the Magenta Dolomite, a Member of the Rustler**) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Formation below the 13-3/8" shoe to be tested according to Onshore Order

2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

2. The minimum required fill of cement behind the 10-3/4 inch intermediate casing is: (**Ensure casing is set in the Lamar Limestone at approximately 4480'**)

Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 10-3/4" shoe to be tested according to Onshore Order

2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

3. The minimum required fill of cement behind the 7-5/8 inch 2nd intermediate casing is:

Cement to surface. Operator shall provide method of verification.
Additional cement will be required as the excess calculates to -8%.

Formation below the 7-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

If cement does not circulate to surface on the first two casings, the cement on the third casing must come to surface.

4. The minimum required fill of cement behind the 5 inch production casing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. **Additional cement may be required as the excess calculates to -4%.**
5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi.** BOP/BOPE shall be tested after nipple up according to Onshore Order #2.
4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **10-3/4"** first intermediate casing shoe shall be **5000 (5M) psi.** **5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and**

tested to stack pressure. BOP/BOPE shall be tested after nipple up according to Onshore Order #2.

5. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7-5/8 inch shoe shall be **10,000 (10M) psi. 10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**
6. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer.**
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test

does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

CRW 101415