1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

| FORMATION | SUB-SEA TVD | KBTVD | MD |
|--------------------------|-------------|-------|-------|
| Ground Elevation | 3136 | 0 | |
| Rustler | 2486 | 650 | |
| Castile | 136 | 3000 | |
| amar | -1564 | 4700 | |
| Bell Canyon | -1844 | 4980 | |
| Cherry Canyon | -2739 | 5875 | |
| Brushy Canyon | -4289 | 7425 | |
| Bone Spring Limestone | -5669 | 8805 | |
| Jpper Avalon | -5739 | 8875 | |
| ateral TD (Upper Avalon) | -5984 | 9120 | 19399 |
| | | | |

2. ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

| Substance | Formation | Depth |
|-----------|------------------------------|-------|
| Deepest | Expected Base of Fresh Water | 500 |
| Water | Rustler | 650 |
| Water | Bell Canyon | 4980 |
| Water | Cherry Canyon | 5875 |
| Oil/Gas | Brushy Canyon | 7425 |
| Oil/Gas | Bone Spring Limestone | 8805 |
| Oil/Gas | Upper Avalon | 8875 |
| | | |

All shows of fresh water and minerals will be reported and protected.

3. **BOP EQUIPMENT**

Will have a minimum of a 5000 psi rig stack (see proposed schematic) for drill out below surface casing. Stack will be tested as specified in the attached testing requirements.

Chevron requests a variance to use a FMC UH2 Multibowl wellhead, which will be run through the rig foor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal.

ONSHORE ORDER NO. 1 Chevron SD WE 24 FED P24 7H Lea County, NM CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN

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4. CASING PROGRAM

a. The proposed casing program will be as follows:

| Purpose | From | То | TVD | Hole Size | Csg Size | Weight | Grade | Thread | Condition |
|--------------|------|---------|--------|-----------|----------|--------|---------|-----------|-----------|
| Surface | 0' | 750' | 750' | 17-1/2" | 13-3/8" | 54.5 # | J55 | STC | New |
| Intermediate | 0' | 4,600' | 4,555' | 12-1/4" | 9-5/8" | 40 # | HCK-55 | LTC | New |
| Production | 0' | 19,399' | 9,120' | 8-3/4" | 5-1/2" | 20.0 # | HCP-110 | TXP BTC S | New |

- b. Casing design subject to revision based on geologic conditions encountered.
- C. ***A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalcuated & sent to the BLM prior to drilling.
- d. Chevron will fill casing at a minimum of every 20 jts (840') while running for intermediate and production casing in order to maintain collapse SF.

SF Calculations based on the following "Worst Case" casing design:

Surface Casing:

850' 4800'

Intermediate Casing:

22.000' MD/9.200' TVD (12.800' VS @ 90 deg inc)

| roadonon odonig. | ==,000 1110 | 101200 112 (12,000 10 6 | , 00 409 1110/ | |
|------------------|--------------|-------------------------|----------------|------------------|
| Casing String | Min SF Burst | Min SF Collapse | Min SF Tension | Min SF Tri-Axial |
| Surface | 1.40 | 1.92 | 2.40 | 1.75 |
| Intermediate | 1.21 | 3.02 | 2.15 | 1.48 |
| Production | 1.30 | 2.51 | 2.48 | 1.51 |

Min SF is the smallest of a group of safety factors that include the following considerations:

| | Surf | Int | Prod |
|---|------|-----|------|
| Burst Design | | | |
| Pressure Test- Surface, Int, Prod Csg | X | X | X |
| P external: Water | | | |
| P internal: Test psi + next section heaviest mud in csg | | | |
| Displace to Gas- Surf Csg | X | | |
| P external: Water | | | |
| P internal: Dry Gas from Next Csg Point | | | |
| Frac at Shoe, Gas to Surf- Int Csg | | X | |
| P external: Water | | | |
| P internal: Dry Gas, 15 ppg Frac Gradient | | | |
| Stimulation (Frac) Pressures- Prod Csg | | | X |
| P external: Water | | | |
| P internal: Max inj pressure w/ heaviest injected fluid | | | |
| Tubing leak- Prod Csg (packer at KOP) | | | X |
| P external: Water | 1 | | |
| P internal: Leak just below surf, 8.7 ppg packer fluid | | | |
| Collapse Design | | | |
| Full Evacuation | X | X | X |
| P external: Water gradient in cement, mud above TOC | | | |
| P internal: none | | | |
| Cementing- Surf, Int, Prod Csg | X | X | X |
| P external: Wet cement | | | |
| P internal: water | | | |
| Tension Design | | | |
| 100k lb overpull | X | X | X |

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5. **CEMENTING PROGRAM**

| Slurry | Туре | Тор | Bottom | Weight | Yield | %Excess | Sacks | Water | BBLs |
|--------------|--------------|---------|---------|--------|------------|-----------|-------|--------|------|
| Surface | | _ | | (ppg) | (sx/cu ft) | Open Hole | | gal/sk | |
| Tail | Class C | 0' | 750' | 14.8 | 1.35 | 125 | 865 | 6.57 | 208 |
| Intermediate | | | | | | | | | |
| Lead | 50:50 Poz | 0' | 3,600' | 11.9 | 2.43 | 150 | 1030 | 14.21 | 446 |
| Tail | Class C | 3,600' | 4,600' | 14.8 | 1.33 | 85 | 464 | 6.37 | 110 |
| Production | | | | | | | | • | |
| 1st Lead | 50:50 Poz | 3,750' | 8,693' | 11.5 | 2.51 | 50 | 706 | 15.51 | 316 |
| 2nd Lead | TXI | 8,693' | 18,399' | 12.5 | 1.62 | 35 | 2050 | 9.64 | 592 |
| | Acid | | 2 | | | | | | |
| Tail | Soluble | 18,399' | 19,399' | 15 | 2.18 | 0 | 116 | 11.42 | 45 |

1. Final cement volumes will be determined by caliper.

2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.

3. Production casing will have one centralizer on every joint for the first 1000' from TD, then every other joint to EOB, then every third joint to KOP, and then every forth joint to intermediate casing.

CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN

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MUD PROGRAM

| From | То | Туре | Weight | F. Vis | Filtrate |
|--------|---------|----------|------------|---------|----------|
| 0' | 750' | Spud Mud | 8.3 - 8.7 | 32 - 34 | NC - NC |
| 750' | 4,600' | Brine | 9.5 - 10.2 | 28 - 30 | NC - NC |
| 4,600' | 8,693' | OBM | 8.3 - 9.6 | 28 - 30 | 15 - 25 |
| 8,693' | 9,443' | OBM | 8.3 - 9.6 | 28 - 30 | 15 - 25 |
| 9,443' | 19,399' | OBM | 8.3 - 9.6 | 28 - 30 | 15 - 25 |

A closed system will by utilized consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

- a. Drill stem tests are not planned.
- b. The logging program will be as follows:

| TYPE | Logs | Interval | Timing | Vendor |
|---------|--------------|---------------------|---------------------|--------|
| Mudlogs | 2 man mudlog | Surface to TD | Drillout of Int Csg | TBD |
| LWD | MWD Gamma | Int. and Prod. Hole | While Drilling | TBD |

- c. Conventional hole core samples are not planned.
- d. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

a. No abnormal pressures or temperatures are expected. Estimated BHP is:

4500 ps

b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered

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

June 17 2015



Size: 5.500 in.

Wall: 0.361 in.

Weight: 20.00 lbs/ft

Grade: P110-IC

Min. Wall Thickness: 87.5 %

| | Ten | aris |
|--|-----|------|
|--|-----|------|

Casing/Tubing: CAS

Connection: TenarisXP™ BTC

Coupling Option: REGULAR

| | | PIPE BODY | | | |
|---|-----------------------|---------------------------------|--------------------------|---|---------------------|
| | | GEOMET | RY | | |
| Nominal OD | 5.500 in. | Nominal Weight | 20.00 lbs/ft | Standard Drift Diameter | 4.653 in. |
| Nominal ID | 4 .77 8 in. | Wall Thickness | 0.361 in. | Special Drift Diameter | N/A |
| Plain End Weight | 19.83 lbs/ft | | | | |
| | | PERFORM | ANCE . | | |
| Body Yield Strength | 641 × 1000 lbs | Internal Yield | 12630 psi | SMYS | 110000 psi |
| Collapse | 12100 psi | | | | |
| | | | | | |
| i. | TEI | NARISXP BTC CO | | ATA | |
| | | GEOMET | RY | | |
| Connection OD | 6.100 in. | Coupling Length | 9.450 in. | Connection ID | 4.766 in. |
| Critical Section Area | 5.828 sq. in. | Threads per in. | 5.00 | Make-Up Loss | 4.204 in. |
| | | PERFORM | ANCE | | |
| Tension Efficiency | 100 % | Joint Yield Strength | 641 × 1000 | Internal Pressure Capacity $^{(\underline{1})}$ | 12630 psi |
| Structural Compression Efficiency | 100 % | Structural Compression Strength | 641 x 1000 lbs | Structural Bending (2) | 92 °/100 ft |
| External Pressure Capacity | 12100 psi | | | | - |
| | E | STIMATED MAKE-U | P TORQUES | 3) | |
| Minimum | 11270 ft-lbs | Optimum | 12520 ft-lbs | Maximum | 13770 ft-lbs |
| | | OPERATIONAL LIN | 4IT TORQUES | 5 | |
| Operating Torque | 21500 ft-lbs | Yield Torque | 23900 ft-lbs | | |

DS-TenarisHydril TenarisXP BTC-5.500-20.000-P110-IC

BLANKING DIMENSIONS

Blanking Dimensions

- (1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.
- (2) Structural rating, pure bending to yield (i.e no other loads applied)
- (3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at licensees@oilfield.tenaris.com. Torque values may be further reviewed. For additional information, please contact us at contact-tenarishydril@tenaris.com

BLOWOUT PREVENTOR SCHEMATIC

Minimum Requirements

OPERATION: Intermediate and Production Hole Sections

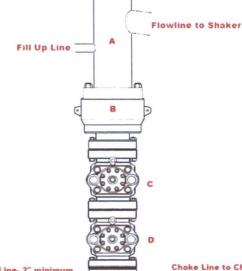
Minimum System
Pressure Rating: 5,000 psi

| SIZE | PRESSURE | DESCRIPTION |
|------|----------|-------------|
| SIZE | FRESSURE | DESCRIPTION |

| Α | | N/A | Bell Nipple | |
|-------|---------|---------------------|----------------------|--|
| В | 13 5/8" | 5,000 psi | Annular | |
| С | 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 require | d for each hole size | |
| (| C-Sec | | | |
| B-Sec | | 13-5/8" 5K x 11" 5K | | |
| , | A-Sec | 13-3/8" S | OW x 13-5/8" 5K | |

Kill Line

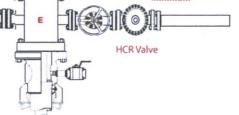
| SIZE | PRESSURE | DESCRIPTION | | |
|--------------|-----------|-------------|--|--|
| 2" | 5,000 psi | Gate Valve | | |
| 2" | 5,000 psi | Gate Valve | | |
| 2" 5,000 psi | | Check Valve | | |



Choke Line to Choke Manifold- 3" minimum

Choke Line

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



Installation Checklist

| The following item must be verified and checked off prior to pressure testing of BUP equipment. |
|---|
| The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown or 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 cook 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

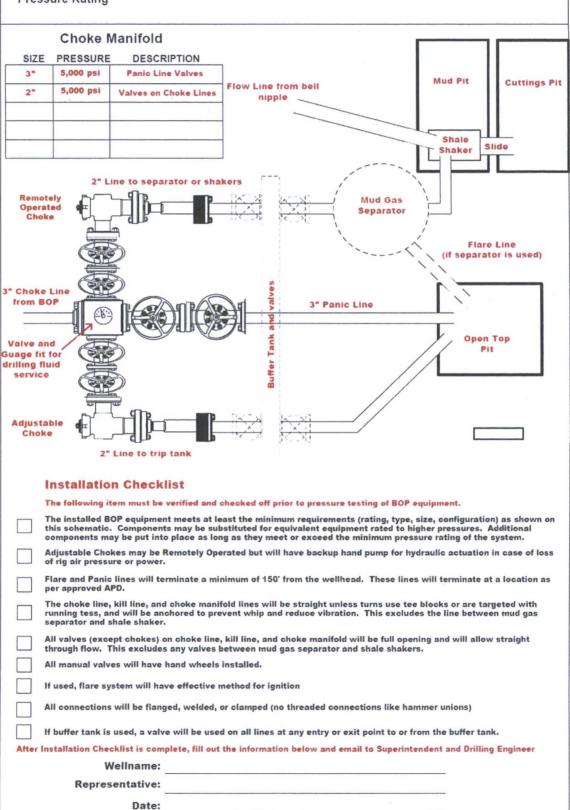
Wellname: Representative: Date:

CHOKE MANIFOLD SCHEMATIC

Minimum Requirements

OPERATION: Intermediate and Production Hole Sections

Minimum System 5,000 psi Pressure Rating



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.

| | pressure testing | g or bor equipment. | ms must be repeate | u arter o months on the | Sume Welli | | | | | | | |
|----------|---|--|---|---|---|--|--|--|--|--|--|--|
| | | Tested precharge pres | sures must be record | ded for each individual | may be further charged bottle and kept on location | | | | | | | |
| one th | | 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. Reservoir 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 preventers. | • | • | -, | | | | | | | | |
| | | nanifold pressure decr | eases to the pre-set | | ps will automatically start led to check that air line to | | | | | | | |
| | (if used) plus close the a | nnular preventer on the eptable precharge pre- | e smallest size drill ssure (see table abo | pipe within 2 minutes a ve) on the closing man | ly-operated choke line valve and obtain a minimum of 200 ifold. Test pressure and | | | | | | | |
| | Master controls for the E all preventer and the ch | | | lator and will be capa | ble of opening and closing | | | | | | | |
| | Remote controls for the floor (not in the dog hou | | | | and located on the rig | | | | | | | |
| | Record accumulator tes | ts in drilling reports an | d IADC sheet | | | | | | | | | |
| | | BOPE T | est 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 be | low test plug will be o | pen | | | | | | | | | |
| | Test will be performed u | sing clear water. | | | | | | | | | | |
| | The follow | ving item must be perf | ormed during the BO | PE testing and then ch | ecked 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 contro | l equipment will be | tested to 250 psi (low) | and 5,000 psi (high). | | | | | | | |
| | Annular type preventer v | will be tested to 250 ps | si (low) and 3,500 ps | i (high). | | | | | | | | |
| | Valves will be tested fro held open to test the kill | | e side with all down | stream valves open. | The check valve will be | | | | | | | |
| | Each pressure test will be | e held for 10 minutes | with no allowable le | ak off. | | | | | | | | |
| | Master controls and rem | ote controls to the clo | sing unit (accumula | tor) must be function to | ested as part of the BOP testing | | | | | | | |
| <i>2</i> | Record BOP tests and pr | ressures in drilling rep | orts and IADC sheet | | | | | | | | | |
| | Installation Checklist is any/all BOP and accumul | | | | dent and Drilling Engineer <u>along</u> | | | | | | | |
| | Wellnar | ne: | | | | | | | | | | |
| | Representati | ve: | | | | | | | | | | |
| | Da | ite: | | | | | | | | | | |



Chevron U.S.A. Inc.

Location: Lea County, NM Field: Jennings; Upper Bone Spring (Lea County, NM) Facility: SD WE 24 Fed P24

Slot: SD WE 24 FED P24 7H Well: SD WE 24 FED P24 7H SD WE 24 FED P24 7H PWB



| | | | Well F | rofile Data | | | | |
|---------------------------|----------|---------|---------|-------------|--------------|--------------|---------------|----------|
| Design Comment | MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
| Tie On | 33,00 | 0.000 | 97.298 | 33.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Nudge | 1000.00 | 0.000 | 97,298 | 1000.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EOH/SOH | 2000.00 | 10.000 | 97.298 | 1994.93 | -11.06 | 86.34 | 1.00 | -11.58 |
| EOH/SOD | 5323.51 | 10.000 | 97,298 | 5267.95 | -84.36 | 658,79 | 0.00 | -88,39 |
| End of Drop | 6323.51 | 0.000 | 359,648 | 6262.88 | -95.42 | 745,13 | 1.00 | -99.97 |
| KOP 100' FSL 440' FEL | 8693.17 | 0.000 | 359,648 | 8632,54 | -95.42 | 745.13 | 0.00 | -99.97 |
| Landing 577' FSL 440' FEL | 9443.17 | 90.000 | 359.648 | 9110.00 | 382.04 | 742.19 | 12.00 | 377.49 |
| 5200' from LP | 14643.17 | 90.000 | 359.648 | 9110.00 | 5581.94 | 710.25 | 0.00 | 5577.49 |
| End of Drop | 14649.22 | 89.879 | 359.648 | 9110.01 | 5587.99 | 710.21 | 2.00 | 5583.54 |
| TD 180' FNL 440' FEL | 19399.72 | 89.879 | 359.648 | 9120.00 | 10338.39 | 681.03 | 0.00 | 10334.03 |

| Bottom Hole Location | | | | | | | | | |
|----------------------|---------|---------|----------|--------------|--------------|-------------------|--------------------|----------------|-----------------|
| MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
| 19399.72 | 89.879 | 359.648 | 9120.00 | 10338.39 | 681.03 | 720776.00 | 382560.00 | 32°02'59.171"N | 103°37'14.748"W |

