

# Split Estate

ATS-14-411

Form 3160-3  
(March 2012)

OCD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

HOSES USED

FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

11/10/2014

|  |  |   |                        |
|--|--|---|------------------------|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |  | 7. If Unit or CA Agreement, Name and No.  |                        |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |  | 8. Lease Name and Well No. <b>PRODIGAL SUN 17 24 34 #1H</b> <b>(313474)</b>               |                        |
| 2. Name of Operator <b>CHEVRON U.S.A. INC.</b> <b>(4323)</b>   |  | 9. API Well No. <b>30-025-41957</b>   |                        |
| 3a. Address <b>15 SMITH ROAD<br/>MIDLAND, TEXAS 79705</b>  | 3b. Phone No. (include area code)<br><b>432-687-7375</b> | 10. Field and Pool, or Exploratory<br><b>RED HILLS; BONE SPRING, NORTH</b> <b>(96434)</b> |                        |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)*<br>At surface <b>330' FNL, &amp; 1660' FEL, UL: B</b><br>At proposed prod. zone <b>330' FSL, &amp; 1660' FEL, UL: O</b>  |  | 11. Sec., T. R. M. or Blk. and Survey or Area<br><b>SEC 17, T24S, R34E</b>                |                        |
| 14. Distance in miles and direction from nearest town or post office*<br><b>17 MILES WEST OF JAL, NM</b>   |  | 12. County or Parish<br><b>LEA</b>  | 13. State<br><b>NM</b> |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>330'</b>  | 16. No. of acres in lease<br><b>640</b>                  | 17. Spacing Unit dedicated to this well<br><b>160 ACRES</b>                               |                        |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>1000' FROM GOVERNMENT M #1</b>   | 19. Proposed Depth<br><b>15,275 MD<br/>10,955 TVD</b>    | 20. BLM/BIA Bond No. on file<br><b>CA0329</b>   |                        |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br><b>3564' GL</b>   | 22. Approximate date work will start*                    | 23. Estimated duration  |                        |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

|  |   |                             |
|--|---|-----------------------------|
| 25. Signature <b>Denise Pinkerton</b>          | Name (Printed/Typed)<br><b>DENISE PINKERTON</b> | Date<br><b>01/29/2014</b>   |
| Title<br><b>REGULATORY SPECIALIST</b>          |   |                             |
| Approved by (Signature)<br><b>Steve Caffey</b> | Name (Printed/Typed)<br><b>STEVE CAFFEY</b>     | Date<br><b>JUN - 9 2014</b> |
| Title<br><b>FIELD MANAGER</b>                  |   |                             |
| Office<br><b>CARLSBAD FIELD OFFICE</b>         |   |                             |

Application approval 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.  
Conditions of approval, if any, are attached.

**APPROVAL FOR TWO YEARS**

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.

(Continued on page 2)

\*(Instructions on page 2)

Carlsbad Controlled Water Basin

**KZ**  
**07/10/14**

Approval Subject to General Requirements  
& Special Stipulations Attached

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

**JUL 14 2014**

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Executed this 21 day of January, 2013

Name:   
Frederick Verner - Project Manager

Address: 1400 Smith Street, 40039  
Houston, TX 77027

Office 713-372-6149

E-mail: fredverner@chevron.com

HOBBS OCD

JUL 10 2014

RECEIVED

OHSORE OIL & GAS ODER NO. 1  
Approval of Operations on Onshore  
Federal and Indian Oil and Gas Leases

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (CFR 43, Part 3160) and the approved Application for Permit to Drill. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling and completion operations.

Approval of this application 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.

**1. FORMATION TOPS**

The estimated tops of important geologic markers are as follows:

| FORMATION                       | SUB-SEA | KBTVD | MD    |
|---------------------------------|---------|-------|-------|
| Rustler                         | 2406    | 1183  |       |
| Magenta Dolomite                | 2336    | 1253  |       |
| Salado                          | 1897    | 1692  |       |
| Castile                         | -200    | 3789  |       |
| Lamar                           | -1728   | 5317  |       |
| Bell Canyon                     | -1746   | 5335  |       |
| Cherry Canyon                   | -2625   | 6214  |       |
| Brushy Canyon                   | -4011   | 7600  |       |
| Bone Spring Limestone           | -5393   | 8982  |       |
| 1st Bone Spring                 | -6325   | 9914  |       |
| 2nd Bone Spring                 | -6930   | 10519 |       |
| Landing Point (2nd Bone Spring) | -7271   | 10860 | 11122 |
| Lateral TD (2nd Bone Spring)    | -7365   | 10954 | 15275 |

Note: Planned target line is 88.7 deg inc.

**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 |                       | 1253  |
| Water                                | Rustler               | 1183  |
| Water                                | Bell Canyon           | 5335  |
| Water                                | Cherry Canyon         | 7600  |
| Oil/Gas                              | Brushy Canyon         | 7600  |
| Oil/Gas                              | Bone Spring Limestone | 8982  |
| Oil/Gas                              | 1st Bone Spring       | 9914  |
| Oil/Gas                              | 2nd Bone Spring       | 10519 |

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 coflex hose with a metal protective covering that will be utilized between the BOP and Choke manifold. Please see the attached testing and certification information.

Chevron requests a variance to use a GE/Vetco SH-2 Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nipped up and test after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from GE/Vetco and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic and installation manual.

See  
COA

#### 4. CASING PROGRAM

a. The proposed casing program will be as follows:

| Purpose              | From | To                 | Hole Size | Csg Size | Weight | Grade   | Thread | Condition |
|----------------------|------|--------------------|-----------|----------|--------|---------|--------|-----------|
| Surface              | 0'   | 1,300'             | 17-1/2"   | 13-3/8"  | 48 #   | H-40    | STC    | New       |
| Shallow Intermediate | 0'   | <del>5,200'</del>  | 12-1/4"   | 9-5/8"   | 40 #   | J-55    | LTC    | New       |
| Production           | 0'   | <del>15,275'</del> | 8-3/4"    | 5-1/2"   | 17.0 # | HCP-110 | CDC    | 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 recalculated & 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. *See COR*

#### SF Calculations based on the following "Worst Case" casing design.

Surface Casing: 1500'

Intermediate Casing: ~~5200'~~ 5250'

Production Casing: 16,500' MD/11,500' TVD (5000' VS @ 90 deg inc)

| Casing String        | Min SF Burst | Min SF Collapse | Min SF Tension |
|----------------------|--------------|-----------------|----------------|
| Surface              | 1.28         | 1.14            | 1.6            |
| Shallow Intermediate | 1.28         | 1.25            | 1.6            |
| Production           | 1.34         | 1.65            | 1.6            |

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

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

5. **CEMENTING PROGRAM**

| Slurry       | Type                                   | Top                          | Bottom  | Weight | Yield      | %Excess   | Sacks | Water  |
|--------------|--|------------------------------|---------|--------|------------|-----------|-------|--------|
| Surface      |  |                              |         | (ppg)  | (sx/cu ft) | Open Hole |       | gal/sk |
| Lead         | C + 4% Gel+2%CaCl                      | 0'                           | 1,000'  | 13.5   | 1.75       | 150       | 945   | 9.18   |
| Tail         | Class C+2%CaCl                         | 1,000'                       | 1,300'  | 14.8   | 1.36       | 150       | 441   | 6.39   |
| Intermediate |  |                              |         |        |            |           |       |        |
| Lead         | 65C/35Poz +6%Gel<br>+5%Salt            | 0'                           | 4,600'  | 12.9   | 1.87       | 100       | 1367  | 9.72   |
| Tail         | Class C                                | 4,600'                       | 5,200'  | 14.8   | 1.33       | 100       | 311   | 6.24   |
| Production   |  |                              |         |        |            |           |       |        |
| Lead         | 50% Class H+ 50%<br>Silicalite +2% Gel | <del>See CoA</del><br>4,700' | 9,883'  | 12.5   | 1.81       | 75        | 1216  | 9.62   |
| Tail         | Class H (Premium)                      | 9,883'                       | 15,275' | 15.6   | 1.19       | 75        | 2008  | 5.38   |

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 horizontal type centralizer on every other joint for the first 1000' from TD, then every third joint to EOB, and then every other joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing.

See COA

## 6. MUD PROGRAM

| From    | To      | Type         | Weight     | F. Vis  | Filtrate |
|---------|---------|--------------|------------|---------|----------|
| 0'      | 1,300'  | Spud Mud     | 8.3 - 8.7  | 32 - 34 | NC - NC  |
| 1,300'  | 5,200'  | Brine        | 9.5 - 10.1 | 28 - 29 | NC - NC  |
| 5,200'  | 10,383' | FW/Cut Brine | 8.3 - 9.5  | 28 - 29 | NC - NC  |
| 10,383' | 11,122' | Cut Brine    | 8.3 - 9.5  | 28 - 30 | 15 - 25  |
| 11,122' | 15,275' | FW/Cut Brine | 8.3 - 9.5  | 28 - 29 | 15 - 25  |

A closed system will be 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:

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

| TYPE     | Logs         | Interval          | Timing              | Vendor |
|----------|--------------|-------------------|---------------------|--------|
| Mudlogs  | 2 man mudlog | Int Csg to TD     | Drillout of Int Csg | TBD    |
| LWD      | MWD Gamma    | Curve and Lateral | While Drilling      | TBD    |
| Wireline | Triple Combo | KOP to Surf       | After reaching KOP  | TBD    |
| -        | -            | -                 | -                   | -      |
| -        | -            | -                 | -                   | -      |

- Conventional whole core samples are not planned.
- A Directional Survey will be run.

## 8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

- No abnormal pressures or temperatures are expected. Estimated BHP is: 4842 psi
- Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered

See COA

# **Chevron**

**Lea County NM (NAD27 NME)**

**Prodigal Sun 17-24-34**

**#1H**

**WB1/Job #1410098**

**Plan: Plan #1 01-13-14**

## **Standard Planning Report**

**14 January, 2014**

# Phoenix Technology Services

## Planning Report

|           |                           |                              |                               |
|-----------|---------------------------|------------------------------|-------------------------------|
| Database: | GCR DB                    | Local Co-ordinate Reference: | Well #1H                      |
| Company:  | Chevron                   | TVD Reference:               | KB @ 3588.50usft (Ensign 153) |
| Project:  | Lea County NM (NAD27 NME) | MD Reference:                | KB @ 3588.50usft (Ensign 153) |
| Site:     | Prodigal Sun 17-24-34     | North Reference:             | Grid                          |
| Well:     | #1H                       | Survey Calculation Method:   | Minimum Curvature             |
| Wellbore: | WB1/Job #1410098          |                              |                               |
| Design:   | Plan #1 01-13-14          |                              |                               |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Lea County NM (NAD27 NME)            |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

|                       |                       |                   |                     |
|-----------------------|-----------------------|-------------------|---------------------|
| Site                  | Prodigal Sun 17-24-34 |                   |                     |
| Site Position:        |                       | Northing:         | 446,164.00 usft     |
| From:                 | Map                   | Easting:          | 761,308.00 usft     |
| Position Uncertainty: | 0.00 usft             | Slot Radius:      | 13-3/16 "           |
|                       |                       | Latitude:         | 32° 13' 25.67035 N  |
|                       |                       | Longitude:        | 103° 29' 18.03959 W |
|                       |                       | Grid Convergence: | 0.45 °              |

|                      |           |                     |                                |
|----------------------|-----------|---------------------|--------------------------------|
| Well                 | #1H       |                     |                                |
| Well Position        | +N/-S     | 0.00 usft           | Northing: 446,164.00 usft      |
|                      | +E/-W     | 0.00 usft           | Easting: 761,308.00 usft       |
| Position Uncertainty | 0.00 usft | Wellhead Elevation: | Ground Level: 3,564.00 usft    |
|                      |           |                     | Latitude: 32° 13' 25.67035 N   |
|                      |           |                     | Longitude: 103° 29' 18.03959 W |

|           |                  |             |                     |
|-----------|------------------|-------------|---------------------|
| Wellbore  | WB1/Job #1410098 |             |                     |
| Magnetics | Model Name       | Sample Date | Declination (°)     |
|           | IGRF2010_14      | 01/13/14    | 7.23                |
|           |                  |             | Dip Angle (°)       |
|           |                  |             | 60.14               |
|           |                  |             | Field Strength (nT) |
|           |                  |             | 48,366              |

|                   |                  |        |                    |
|-------------------|------------------|--------|--------------------|
| Design            | Plan #1 01-13-14 |        |                    |
| Audit Notes:      |                  |        |                    |
| Version:          | Phase:           | PLAN   | Tie On Depth: 0.00 |
| Vertical Section: | Depth From (TVD) | +N/-S  | +E/-W              |
|                   | (usft)           | (usft) | (usft)             |
|                   | 0.00             | 0.00   | 0.00               |
|                   |                  |        | Direction (°)      |
|                   |                  |        | 179.49             |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                      |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target               |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 10,383.26             | 0.00            | 0.00        | 10,383.26             | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 11,122.42             | 88.70           | 179.49      | 10,860.60             | -466.61      | 4.14         | 12.00                   | 12.00                  | 0.00                  | 179.49  |                      |
| 15,275.04             | 88.70           | 179.49      | 10,954.81             | -4,618.00    | 41.00        | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL-Prodigal 17-24- |



## Phoenix Technology Services

## Planning Report

|           |                           |                              |                               |
|-----------|---------------------------|------------------------------|-------------------------------|
| Database: | GCR DB                    | Local Co-ordinate Reference: | Well #1H                      |
| Company:  | Chevron                   | TVD Reference:               | KB @ 3588.50usft (Ensign 153) |
| Project:  | Lea County NM (NAD27 NME) | MD Reference:                | KB @ 3588.50usft (Ensign 153) |
| Site:     | Prodigal Sun 17-24-34     | North Reference:             | Grid                          |
| Well:     | #1H                       | Survey Calculation Method:   | Minimum Curvature             |
| Wellbore: | WB1/Job #1410098          |                              |                               |
| Design:   | Plan #1 01-13-14          |                              |                               |

## Planned Survey

| Measured<br>Depth<br>(usft)                | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|--|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 0.00                                       | 0.00               | 0.00           | 0.00                        | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 10,383.26                                  | 0.00               | 0.00           | 10,383.26                   | 0.00            | 0.00            | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>KOP, 12°/100' Build</b>                 |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 10,400.00                                  | 2.01               | 179.49         | 10,400.00                   | -0.29           | 0.00            | 0.29                          | 12.00                         | 12.00                        | 0.00                        |
| 10,500.00                                  | 14.01              | 179.49         | 10,498.84                   | -14.20          | 0.13            | 14.20                         | 12.00                         | 12.00                        | 0.00                        |
| 10,600.00                                  | 26.01              | 179.49         | 10,592.63                   | -48.35          | 0.43            | 48.36                         | 12.00                         | 12.00                        | 0.00                        |
| 10,700.00                                  | 38.01              | 179.49         | 10,677.27                   | -101.26         | 0.90            | 101.26                        | 12.00                         | 12.00                        | 0.00                        |
| 10,800.00                                  | 50.01              | 179.49         | 10,749.07                   | -170.61         | 1.51            | 170.62                        | 12.00                         | 12.00                        | 0.00                        |
| 10,900.00                                  | 62.01              | 179.49         | 10,804.87                   | -253.37         | 2.25            | 253.38                        | 12.00                         | 12.00                        | 0.00                        |
| 11,000.00                                  | 74.01              | 179.49         | 10,842.25                   | -345.92         | 3.07            | 345.93                        | 12.00                         | 12.00                        | 0.00                        |
| 11,100.00                                  | 86.01              | 179.49         | 10,859.56                   | -444.22         | 3.94            | 444.24                        | 12.00                         | 12.00                        | 0.00                        |
| 11,119.53                                  | 88.35              | 179.49         | 10,860.52                   | -463.72         | 4.12            | 463.74                        | 12.00                         | 12.00                        | 0.00                        |
| <b>TL1, 10850' TVD @ 0° VS w/88.7° Inc</b> |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 11,122.42                                  | 88.70              | 179.49         | 10,860.60                   | -466.61         | 4.14            | 466.63                        | 12.00                         | 12.00                        | 0.00                        |
| <b>LP, Hold 88.7° Inc, 179.49° Azm</b>     |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 11,200.00                                  | 88.70              | 179.49         | 10,862.36                   | -544.17         | 4.83            | 544.19                        | 0.00                          | 0.00                         | 0.00                        |
| 11,300.00                                  | 88.70              | 179.49         | 10,864.63                   | -644.14         | 5.72            | 644.16                        | 0.00                          | 0.00                         | 0.00                        |
| 11,400.00                                  | 88.70              | 179.49         | 10,866.90                   | -744.11         | 6.61            | 744.14                        | 0.00                          | 0.00                         | 0.00                        |
| 11,500.00                                  | 88.70              | 179.49         | 10,869.16                   | -844.08         | 7.49            | 844.11                        | 0.00                          | 0.00                         | 0.00                        |
| 11,600.00                                  | 88.70              | 179.49         | 10,871.43                   | -944.05         | 8.38            | 944.09                        | 0.00                          | 0.00                         | 0.00                        |
| 11,700.00                                  | 88.70              | 179.49         | 10,873.70                   | -1,044.02       | 9.27            | 1,044.06                      | 0.00                          | 0.00                         | 0.00                        |
| 11,800.00                                  | 88.70              | 179.49         | 10,875.97                   | -1,143.99       | 10.16           | 1,144.04                      | 0.00                          | 0.00                         | 0.00                        |
| 11,900.00                                  | 88.70              | 179.49         | 10,878.24                   | -1,243.96       | 11.04           | 1,244.01                      | 0.00                          | 0.00                         | 0.00                        |
| 12,000.00                                  | 88.70              | 179.49         | 10,880.51                   | -1,343.93       | 11.93           | 1,343.98                      | 0.00                          | 0.00                         | 0.00                        |
| 12,100.00                                  | 88.70              | 179.49         | 10,882.78                   | -1,443.90       | 12.82           | 1,443.96                      | 0.00                          | 0.00                         | 0.00                        |
| 12,200.00                                  | 88.70              | 179.49         | 10,885.05                   | -1,543.87       | 13.71           | 1,543.93                      | 0.00                          | 0.00                         | 0.00                        |
| 12,300.00                                  | 88.70              | 179.49         | 10,887.31                   | -1,643.84       | 14.59           | 1,643.91                      | 0.00                          | 0.00                         | 0.00                        |
| 12,400.00                                  | 88.70              | 179.49         | 10,889.58                   | -1,743.81       | 15.48           | 1,743.88                      | 0.00                          | 0.00                         | 0.00                        |
| 12,500.00                                  | 88.70              | 179.49         | 10,891.85                   | -1,843.78       | 16.37           | 1,843.85                      | 0.00                          | 0.00                         | 0.00                        |
| 12,600.00                                  | 88.70              | 179.49         | 10,894.12                   | -1,943.75       | 17.26           | 1,943.83                      | 0.00                          | 0.00                         | 0.00                        |
| 12,700.00                                  | 88.70              | 179.49         | 10,896.39                   | -2,043.72       | 18.14           | 2,043.80                      | 0.00                          | 0.00                         | 0.00                        |
| 12,800.00                                  | 88.70              | 179.49         | 10,898.66                   | -2,143.69       | 19.03           | 2,143.78                      | 0.00                          | 0.00                         | 0.00                        |
| 12,900.00                                  | 88.70              | 179.49         | 10,900.93                   | -2,243.66       | 19.92           | 2,243.75                      | 0.00                          | 0.00                         | 0.00                        |
| 13,000.00                                  | 88.70              | 179.49         | 10,903.20                   | -2,343.63       | 20.81           | 2,343.73                      | 0.00                          | 0.00                         | 0.00                        |
| 13,100.00                                  | 88.70              | 179.49         | 10,905.46                   | -2,443.60       | 21.70           | 2,443.70                      | 0.00                          | 0.00                         | 0.00                        |
| 13,200.00                                  | 88.70              | 179.49         | 10,907.73                   | -2,543.57       | 22.58           | 2,543.67                      | 0.00                          | 0.00                         | 0.00                        |
| 13,300.00                                  | 88.70              | 179.49         | 10,910.00                   | -2,643.54       | 23.47           | 2,643.65                      | 0.00                          | 0.00                         | 0.00                        |
| 13,400.00                                  | 88.70              | 179.49         | 10,912.27                   | -2,743.52       | 24.36           | 2,743.62                      | 0.00                          | 0.00                         | 0.00                        |
| 13,500.00                                  | 88.70              | 179.49         | 10,914.54                   | -2,843.49       | 25.25           | 2,843.60                      | 0.00                          | 0.00                         | 0.00                        |
| 13,600.00                                  | 88.70              | 179.49         | 10,916.81                   | -2,943.46       | 26.13           | 2,943.57                      | 0.00                          | 0.00                         | 0.00                        |
| 13,700.00                                  | 88.70              | 179.49         | 10,919.08                   | -3,043.43       | 27.02           | 3,043.55                      | 0.00                          | 0.00                         | 0.00                        |
| 13,800.00                                  | 88.70              | 179.49         | 10,921.35                   | -3,143.40       | 27.91           | 3,143.52                      | 0.00                          | 0.00                         | 0.00                        |
| 13,900.00                                  | 88.70              | 179.49         | 10,923.61                   | -3,243.37       | 28.80           | 3,243.49                      | 0.00                          | 0.00                         | 0.00                        |
| 14,000.00                                  | 88.70              | 179.49         | 10,925.88                   | -3,343.34       | 29.68           | 3,343.47                      | 0.00                          | 0.00                         | 0.00                        |
| 14,100.00                                  | 88.70              | 179.49         | 10,928.15                   | -3,443.31       | 30.57           | 3,443.44                      | 0.00                          | 0.00                         | 0.00                        |
| 14,200.00                                  | 88.70              | 179.49         | 10,930.42                   | -3,543.28       | 31.46           | 3,543.42                      | 0.00                          | 0.00                         | 0.00                        |
| 14,300.00                                  | 88.70              | 179.49         | 10,932.69                   | -3,643.25       | 32.35           | 3,643.39                      | 0.00                          | 0.00                         | 0.00                        |
| 14,400.00                                  | 88.70              | 179.49         | 10,934.96                   | -3,743.22       | 33.23           | 3,743.37                      | 0.00                          | 0.00                         | 0.00                        |
| 14,500.00                                  | 88.70              | 179.49         | 10,937.23                   | -3,843.19       | 34.12           | 3,843.34                      | 0.00                          | 0.00                         | 0.00                        |
| 14,600.00                                  | 88.70              | 179.49         | 10,939.50                   | -3,943.16       | 35.01           | 3,943.31                      | 0.00                          | 0.00                         | 0.00                        |
| 14,700.00                                  | 88.70              | 179.49         | 10,941.76                   | -4,043.13       | 35.90           | 4,043.29                      | 0.00                          | 0.00                         | 0.00                        |
| 14,800.00                                  | 88.70              | 179.49         | 10,944.03                   | -4,143.10       | 36.78           | 4,143.26                      | 0.00                          | 0.00                         | 0.00                        |
| 14,900.00                                  | 88.70              | 179.49         | 10,946.30                   | -4,243.07       | 37.67           | 4,243.24                      | 0.00                          | 0.00                         | 0.00                        |

# Phoenix Technology Services

## Planning Report

|           |                           |                              |                               |
|-----------|---------------------------|------------------------------|-------------------------------|
| Database: | GCR DB                    | Local Co-ordinate Reference: | Well #1H                      |
| Company:  | Chevron                   | TVD Reference:               | KB @ 3588.50usft (Ensign 153) |
| Project:  | Lea County NM (NAD27 NME) | MD Reference:                | KB @ 3588.50usft (Ensign 153) |
| Site:     | Prodigal Sun 17-24-34     | North Reference:             | Grid                          |
| Well:     | #1H                       | Survey Calculation Method:   | Minimum Curvature             |
| Wellbore: | WB1/Job #1410098          |                              |                               |
| Design:   | Plan #1 01-13-14          |                              |                               |

| Planned Survey                             |                 |             |                       |              |              |                         |                         |                        |                       |  |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft)                      | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 15,000.00                                  | 88.70           | 179.49      | 10,948.57             | -4,343.04    | 38.56        | 4,343.21                | 0.00                    | 0.00                   | 0.00                  |  |
| 15,100.00                                  | 88.70           | 179.49      | 10,950.84             | -4,443.01    | 39.45        | 4,443.19                | 0.00                    | 0.00                   | 0.00                  |  |
| 15,200.00                                  | 88.70           | 179.49      | 10,953.11             | -4,542.98    | 40.33        | 4,543.16                | 0.00                    | 0.00                   | 0.00                  |  |
| 15,275.04                                  | 88.70           | 179.49      | 10,954.81             | -4,618.00    | 41.00        | 4,618.18                | 0.00                    | 0.00                   | 0.00                  |  |
| TD at 15275.04 - PBHL-Prodigal 17-24-34 1H |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Design Targets                               |               |              |            |              |              |                 |                |                    |                     |  |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|--------------------|---------------------|--|
| Target Name                                  | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude           | Longitude           |  |
| - hit/miss target                            |               |              |            |              |              |                 |                |                    |                     |  |
| - Shape                                      |               |              |            |              |              |                 |                |                    |                     |  |
| PBHL-Prodigal 17-24-34                       | -88.70        | 179.49       | 10,954.81  | -4,618.00    | 41.00        | 441,546.00      | 761,349.00     | 32° 12' 39.97060 N | 103° 29' 17.98503 W |  |
| - plan hits target center                    |               |              |            |              |              |                 |                |                    |                     |  |
| - Rectangle (sides W100.00 H20.00 D4,152.62) |               |              |            |              |              |                 |                |                    |                     |  |

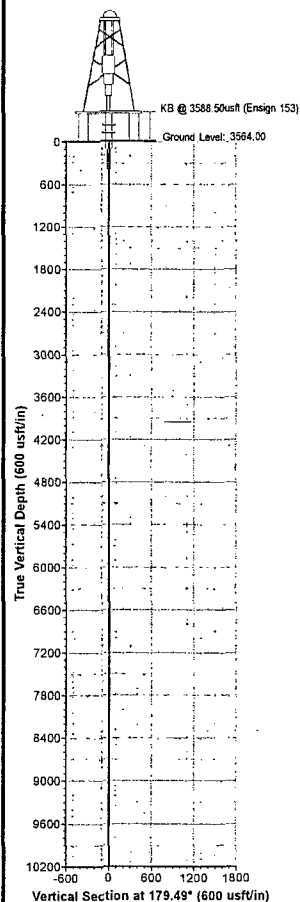
| Formations            |                       |                                     |           |  |  |  | Dip  | Dip Direction |
|-----------------------|-----------------------|-------------------------------------|-----------|--|--|--|------|---------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name                                | Lithology |  |  |  | (°)  | (°)           |
| 11,119.53             | 10,860.52             | TL1, 10850' TVD @ 0° VS w/88.7° Inc |           |  |  |  | 1.30 | 179.49        |

| Plan Annotations      |                       |                   |              |                                 |  |
|-----------------------|-----------------------|-------------------|--------------|---------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              |                                 |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) | Comment                         |  |
| 10,383.26             | 10,383.26             | 0.00              | 0.00         | KOP, 12°/100' Build             |  |
| 11,122.42             | 10,860.60             | -466.61           | 4.14         | LP, Hold 88.7° Inc, 179.49° Azm |  |
| 15,275.04             | 10,954.81             | -4,618.00         | 41.00        | TD at 15275.04                  |  |

Project: Lea County NM (NAD27 NME)  
 Site: Prodigal Sun 17-24-34  
 Well: #1H  
 Wellbore: WB1/Job #1410098  
 Design: Plan #1 01-13-14  
 Rig: Ensign 153



Azimuths to Grid North  
 True North: -0.45°  
 Magnetic North: 6.78°  
 Magnetic Field  
 Strength: 45355.5 nT  
 Dip Angle: 60.14°  
 Date: 01/13/2014  
 Model: IGRF2010\_14



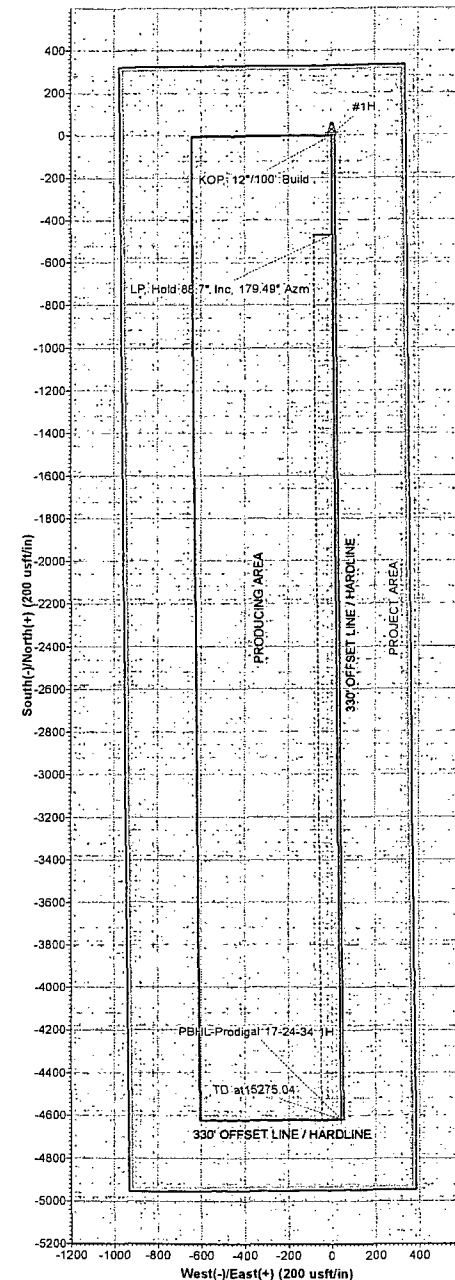
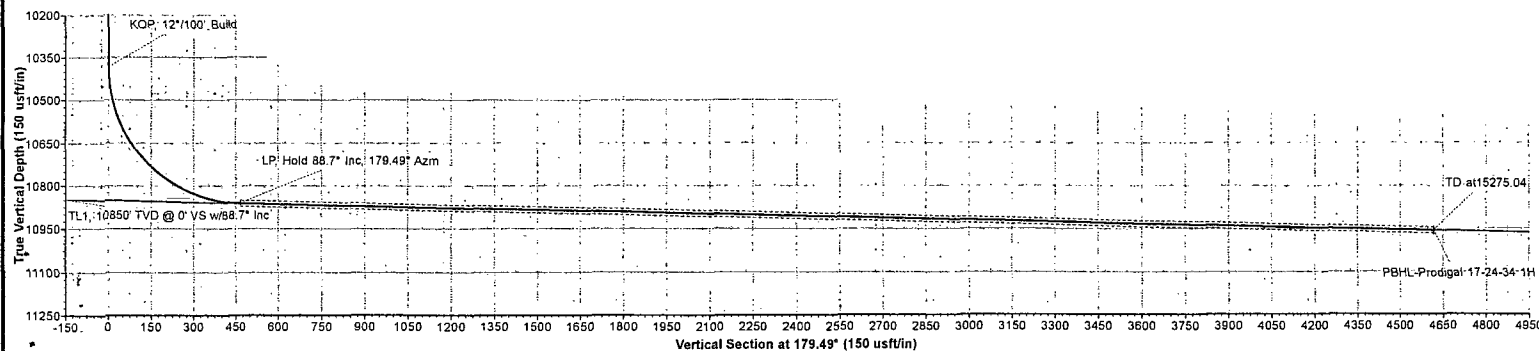
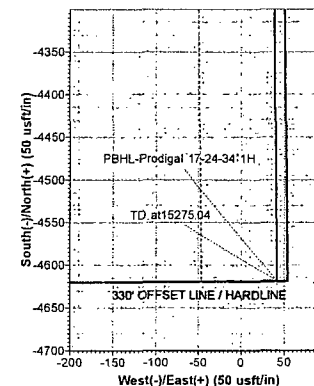
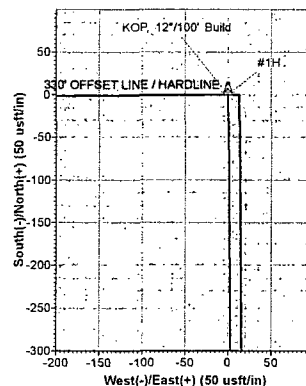
| WELL DETAILS |  |      |  |           |  |                          |  |                     |  |                     |  |
|--------------|--|------|--|-----------|--|--------------------------|--|---------------------|--|---------------------|--|
| +N-S         |  | +E-W |  | Northing  |  | Ground Level:<br>Easting |  | 3564.00<br>Latitude |  | Longitude           |  |
| 0.00         |  | 0.00 |  | 446164.00 |  | 761308.00                |  | 32° 13' 25.67035 N  |  | 103° 29' 18.03959 W |  |

| SECTION DETAILS |          |       |        |          |          |       |       |        |         |                          |                                 |
|-----------------|----------|-------|--------|----------|----------|-------|-------|--------|---------|--------------------------|---------------------------------|
| Sec             | MD       | Inc   | Azi    | TVD      | +N-S     | +E-W  | Dleg  | TFace  | VSecl   | Target                   | Annotation                      |
| 1               | 0.00     | 0.00  | 0.00   | 0.00     | 0.00     | 0.00  | 0.00  | 0.00   | 0.00    |                          |                                 |
| 2               | 10383.26 | 0.00  | 0.00   | 10383.26 | 0.00     | 0.00  | 0.00  | 0.00   | 0.00    |                          | KOP, 12°/100' Build             |
| 3               | 11122.42 | 88.70 | 179.49 | 10860.00 | -468.61  | 4.14  | 12.00 | 179.49 | 456.63  |                          | LP, Hold 88.7° Inc, 179.49° Azm |
| 4               | 15275.04 | 88.70 | 179.49 | 10954.81 | -4618.00 | 41.00 | 0.00  | 0.00   | 4618.18 | PBHL-Prodgal 17-24-34 1H | TD at 15275.04                  |

| DESIGN TARGET DETAILS    |          |  |          |  |       |           |           |                    |                     |                                   |  |
|--------------------------|----------|--|----------|--|-------|-----------|-----------|--------------------|---------------------|-----------------------------------|--|
| Name                     | TVD      |  | +N-S     |  | +E-W  | North     | Easting   | Latitude           | Longitude           | Shape                             |  |
| PBHL-Prodgal 17-24-34 1H | 10954.81 |  | -4618.00 |  | 41.00 | 441548.00 | 761349.00 | 32° 12' 39.97060 N | 103° 29' 17.88503 W | Rectangle (Sides: L20.00 W100.00) |  |
| -plan hits target center |          |  |          |  |       |           |           |                    |                     |                                   |  |

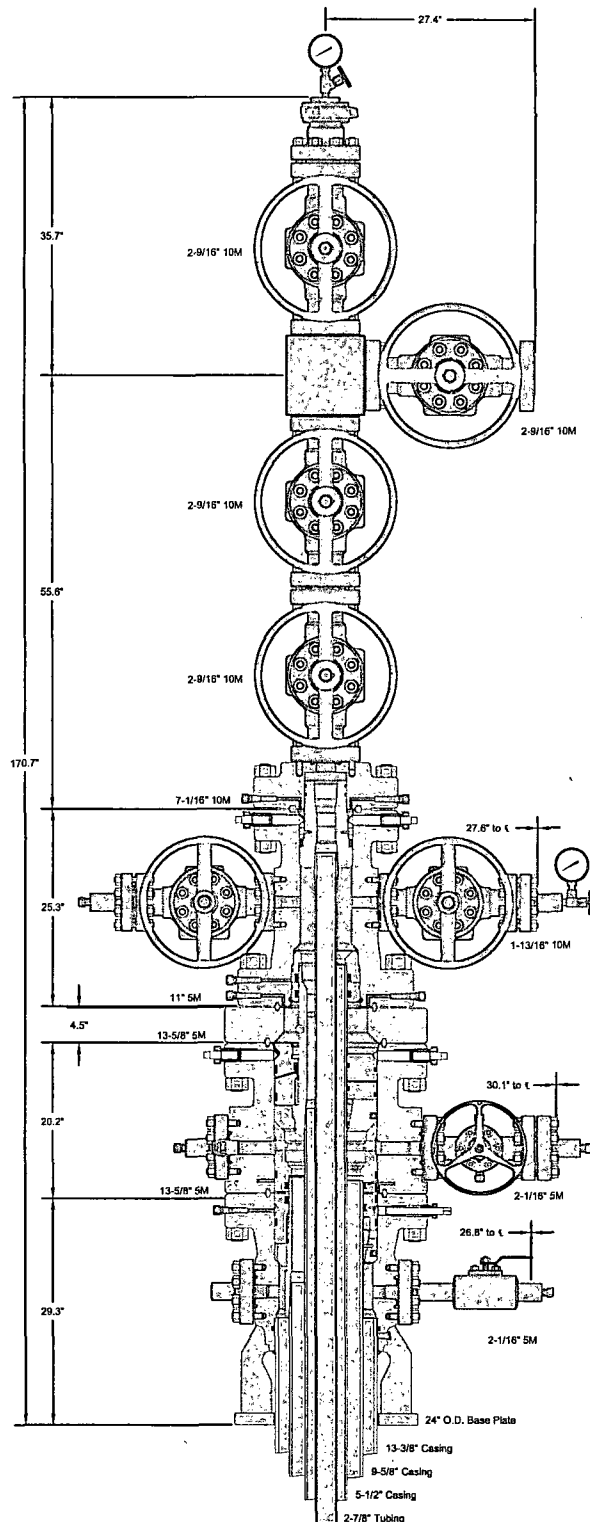
Map System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone Name: New Mexico East 3001  
 Local Origin: Well #1H, Grid North  
 Latitude: 32° 13' 25.67035 N  
 Longitude: 103° 29' 18.03959 W  
 Grid East: 761308.00  
 Grid North: 446164.00  
 Scale Factor: 1.000  
 Geomagnetic Model: IGRF2010\_14  
 Sample Date: 13-Jan-14  
 Magnetic Declination: 7.23°  
 Dip Angle from Horizontal: 60.14°  
 Magnetic Field Strength: 48366  
 To convert a Magnetic Direction to a Grid Direction, Add 6.78°  
 To convert a Magnetic Direction to a True Direction, Add 7.23° East  
 To convert a True Direction to a Grid Direction, Subtract 0.45°

**LEGEND**  
 — Plan #1 01-13-14





GE Oil & Gas



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CHEVRON USA, INC.  
DELAWARE BASIN

13-3/8" x 9-5/8" x 5-1/2" x 2-7/8" 10M SH2/Conventional  
Wellhead Assembly, With DSA, T-EBS-F Tubing Head,  
T-EN Tubing Hanger and A5PEN Adapter Flange

|                    |     |         |
|--------------------|-----|---------|
| DRAWN              | VJK | 19MAR13 |
| APPRV              | KN  | 19MAR13 |
| FOR REFERENCE ONLY |     |         |
| DRAWING NO.        |     | AE23705 |

# BLOWOUT PREVENTOR SCHEMATIC

## Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System

Pressure Rating : 5,000 psi

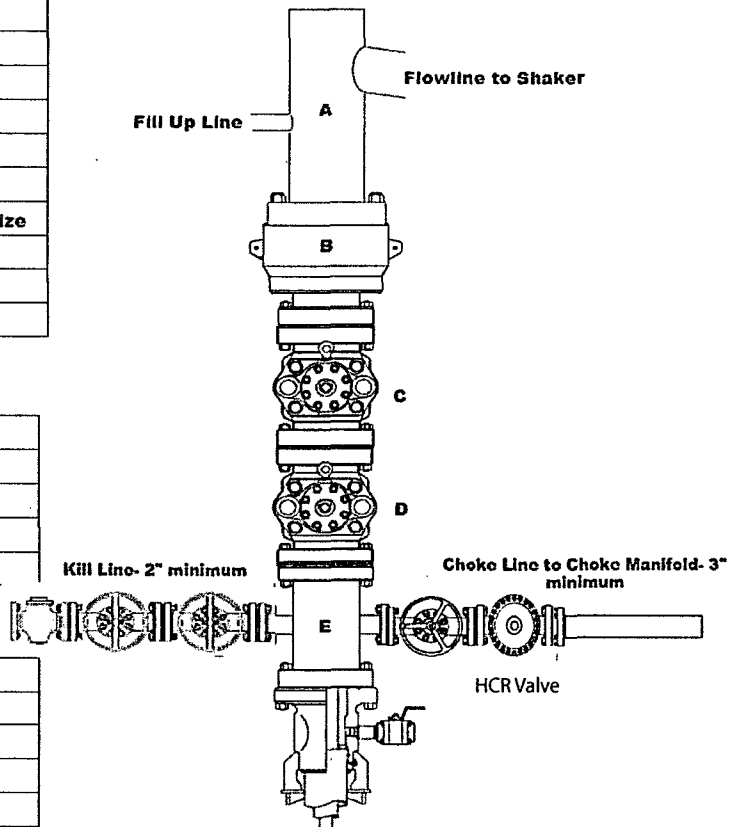
|       | SIZE                           | PRESSURE  | DESCRIPTION |
|-------|--------------------------------|-----------|-------------|
| A     |                                | N/A       | Bell Nipple |
| B     | 13 5/8"                        | 5,000 psi | Annular     |
| C     | 13 5/8"                        | 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 through flow.
- ☐ The kill line and choke line will be straight unless turns use toe 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: \_\_\_\_\_

# CHOKE MANIFOLD SCHEMATIC

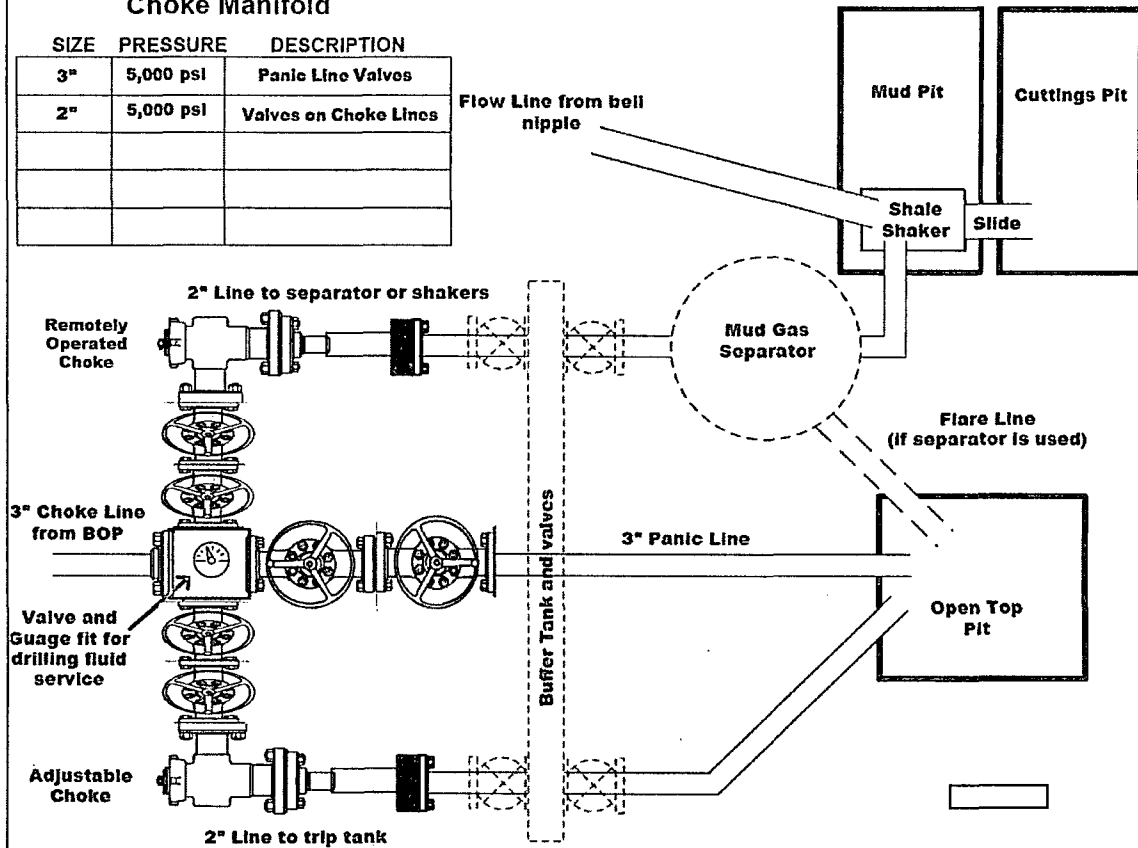
## Minimum Requirements

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 tools, 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 |
|--------------------------|-------------------------------------|---------------------------------------|----------------------------|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> | 1500 psi                            | 1500 psi                              | 750 psi                    | 800 psi                               | 700 psi                               |
| <input type="checkbox"/> | 2000 psi                            | 2000 psi                              | 1000 psi                   | 1100 psi                              | 900 psi                               |
| <input type="checkbox"/> | 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 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 checked 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 3<sup>rd</sup> 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 3<sup>rd</sup> parties.

Wellname: \_\_\_\_\_

Representative: \_\_\_\_\_

Date: \_\_\_\_\_



A Tomkins Company

**Robesco, Inc.**

**OILFIELD RUBBER PRODUCTS**

4749 Eastpark Drive

Houston, TX 77028

United States of America

**Gates Corporation Authorized Rotary and Vibrator Hose Subcontracted Fabricator**

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### Hydrostatic Test Certification

Robesco, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the hydrostatic test per API Spec 7K, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.25 times the working pressure per Table 9.

**Assembly Part Number**

36332R3-1/16HUB10K-LL-L

**Serial Number / Date Code**

L32461102512R112712-5

**Chart Recorder Information**

**Hose Size**

3.5IN X 32FT

**Testers**

OC CS

**Serial Number**

Recorder 22349

**Calibration Date**

Oct. 19th 2012

Lloyd's Register Type Approved for Fire Test OD/1000/499 Rev 1

**Hydrostatic Test:** Passed

**Visual Inspection:** Passed

**QA Representative Signature**

11/28/2012 PS

**Date & Initial**



Over All = 0.14

*Carey Wright*

TAKEN OFF

CHART NO. MC MP-30000-IHR

Copyright Clearance Center

0 09

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**Shipper:**

**GHX - Robsco, Inc.**  
**4749 Eastpark Drive**

**Houston, TX 77028**  
**Rufus Dominguez 713-672-1777**

**Shipment Reference: 9415989**  
**Consignee Reference: 491394-156JR**  
**Total Weight: 1687**  
**Total Shipment Pieces: 1**

**Special Instruction**

**DO NOT STAND CRATES ON END!!!!**

**DIM Weight: 1105**  
**qty: 1 (88 x 84 x 29)**

**00608423360 2**

**Label 1 of 1**

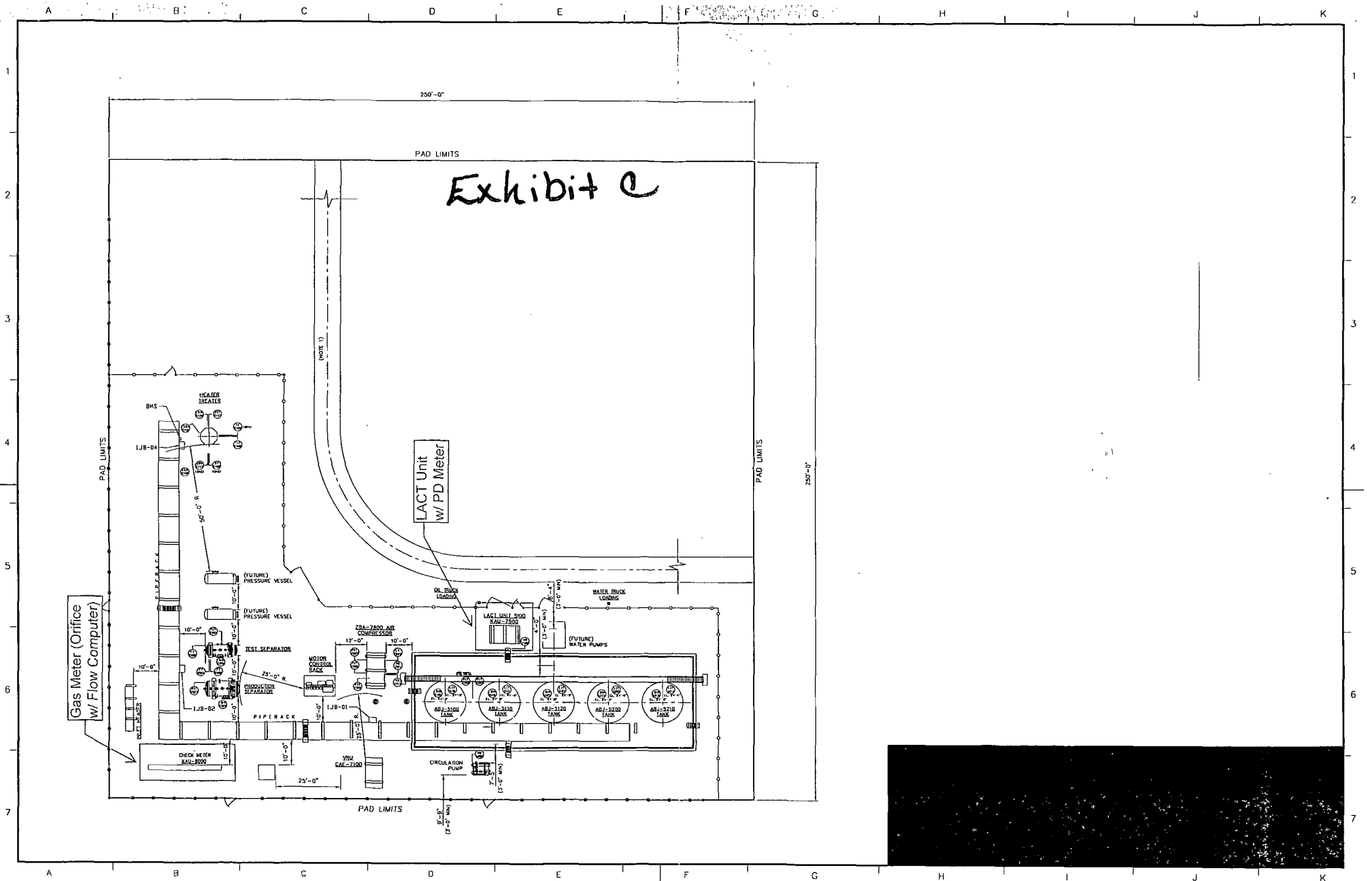
**Saia, Inc.**  
**853-1923-A**  
**11/29/2012**

**TOTAL SERVICE SUPPLY LP**  
**1620 VICEROY**

**ODESSA, TX 79763**  
**ATTN: BRUCE**

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**(Fold Sheet Here)**



# Prodigal Sun 17-24-34 1H Pad Layout – Ensign 153

