

14-188

Form 3160-3  
(March 2012)

HOBBS OCD

MAY 05 2014

OCD Hobbs

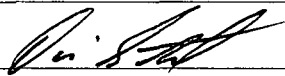
FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 2014UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTRECEIVED  
APPLICATION FOR PERMIT TO DRILL OR REENTER

|                                                                                                                                                                                                                        |                                                  |                                                                         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------|--|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER                                                                                                                           |                                                  | 5. Lease Serial No.<br>NMNM107395                                       |  |
| 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 |                                                  | 6. If Indian, Allottee or Tribe Name                                    |  |
| 2. Name of Operator OXY USA Inc. <b>16696</b>                                                                                                                                                                          |                                                  | 7. If Unit or CA Agreement, Name and No.                                |  |
| 3a. Address P.O. Box 50250<br>Midland, TX 79710                                                                                                                                                                        |                                                  | 8. Lease Name and Well No.<br>Foxglove 29 Federal #5H <b>304827</b>     |  |
| 3b. Phone No. (include area code)<br>432-685-5717                                                                                                                                                                      |                                                  | 9. API Well No.<br>30-025- <b>41828</b>                                 |  |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface 340 FNL 1980 FWL NENW(C)<br>At proposed prod. zone 340 FSL 1980 FWL SESW(N)                               |                                                  | 10. Field and Pool, or Exploratory<br>Triple X Bone Spring <b>59900</b> |  |
| 14. Distance in miles and direction from nearest town or post office*<br>24 miles southwest from Eunice, NM                                                                                                            |                                                  | 11. Sec., T. R. M. or Blk. and Survey or Area<br>Sec 29 T23S R33E       |  |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 340'                                                                                             | 16. No. of acres in lease 600ac                  | 17. Spacing Unit dedicated to this well 160ac                           |  |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1000'                                                                                                       | 19. Proposed Depth 15445'M 11152'V               | 20. BLM/BIA Bond No. on file NMB000862 - ESB000226                      |  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3703.5' GL                                                                                                                                                         | 22. Approximate date work will start* 04/01/2014 | 23. Estimated duration 35days                                           |  |

## 24. Attachments

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

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

|                                                                                                   |                                       |                          |
|---------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------|
| 25. Signature  | Name (Printed/Typed)<br>David Stewart | Date<br>11/26/13         |
| Title<br>Sr. Regulatory Advisor david_stewart@oxy.com                                             |                                       |                          |
| Approved by (Signature) <b>Steve Caffey</b>                                                       | Name (Printed/Typed)                  | Date <b>MAY 1 - 2014</b> |
| Title<br>FIELD MANAGER                                                                            | Office<br>CARLSBAD FIELD OFFICE       |                          |

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

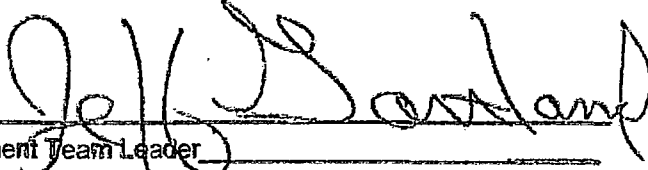
KAC  
04/06/14Approval Subject to General Requirements  
& Special Stipulations AttachedSEE ATTACHED FOR  
CONDITIONS OF APPROVAL

MAY 13 2014

Jm

OPERATOR 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 that presently 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 herein 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 false statements. Executed this 8th day of November, 2013.

Name: Jeff Gartland   
Position: Reservoir Management Team Leader  
Address: 5 Greenway Plaza, Suite 110, Houston, TX 77046  
Telephone: 713-552-8567  
E-mail: (optional): jeff\_gartland@oxy.com  
Company: Occidental Permian LP / OXY USA Inc / OXY USA WTP LP  
Field Representative (if not above signatory): Dusty Weaver  
Address (if different from above): P.O. Box 50250 Midland, TX 79710  
Telephone (if different from above): 432-685-5723  
E-mail (if different from above): calvin\_weaver@oxy.com

**OXY USA Inc**  
**Foxglove 29 Federal #5H**  
**APD Drilling Data**

OPERATOR NAME / NUMBER: OXY USA Inc

16696

LEASE NAME / NUMBER: Foxglove 29 Federal #5H Federal Lease No: NMNM107395

STATE: NM

COUNTY: Lea

POOL NAME/NUMBER: Triple X Bone Spring 59900

SURFACE LOCATION: 340 FNL 1980 FWL NENW(C) Sec 29 T23S R33E

SL: LAT: 32.2819150N LONG: 103.5960033W X: 727869.0 Y: 467061.1 NAD: 27

BOTTOM HOLE LOCATION: 340 FSL 1980 FWL SESW(N) Sec 29 T23S R33E

SL: LAT: 32.2692702N LONG: 103.5959968W X: 727902.6 Y: 462461.2 NAD: 27

APPROX GR ELEV: 3703.5'

EST KB ELEV: 3727.5' (24' KB-GL)

**1. GEOLOGIC NAME OF SURFACE FORMATION**

a. Permian

**2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS**

| Formation                        | TVD - RKB | Expected Fluids |
|----------------------------------|-----------|-----------------|
| T. Rustler                       | 1253      | --              |
| T. Salt                          | 1761      | --              |
| B. Salt                          | 5118      | --              |
| T. Lamar / B. Anhydrite          | 5128      | --              |
| T. Bell Canyon                   | 5155      | Form Water      |
| T. Cherry Canyon                 | 6047      | Oil/Gas         |
| T. Brushy Canyon                 | 7370      | Oil/Gas         |
| T. 1 <sup>st</sup> BSPG          | 8947      | Oil/Gas         |
| T. 2 <sup>nd</sup> BSPG          | 10360     | Oil/Gas         |
| Target 2 <sup>nd</sup> BSPG Sand | 11152     | Oil/Gas         |
| T. 3 <sup>rd</sup> BSPG          | 11170     | Oil/Gas         |

- Fresh water may be present above the Rustler formation. Surface casing will be set below the top of the Rustler to protect any possible fresh water. *See COA*

**GREATEST PROJECTED TD LATERAL: 15445' MD/11152' VD OBJECTIVE: 2<sup>nd</sup> Bone Spring**

*See COA*  
**3. CASING PROGRAM**

New Surface Casing ran in a 14.75" hole filled with 8.50 ppg mud

| Hole Size (in) | Interval (ft) | OD (in) | Wt (ppf) | Grade | Conn | ID (in) | Condition | Burst (psi) | Collapse (psi) | Burst SF | Coll SF | Ten SF |
|----------------|---------------|---------|----------|-------|------|---------|-----------|-------------|----------------|----------|---------|--------|
| 14.75          | 0-1280        | 11.75   | 47       | J55   | BTC  | 11.000  | New       | 3072        | 1514           | 1.42     | 3.16    | 4.97   |

*1375'*

New Intermediate Casing ran in a 10.625" hole filled with 10.2 ppg mud

| Hole Size (in) | Interval (ft) | OD (in) | Wt (ppf) | Grade | Conn | ID (in) | Condition | Burst (psi) | Collapse (psi) | Burst SF | Coll SF | Ten SF |
|----------------|---------------|---------|----------|-------|------|---------|-----------|-------------|----------------|----------|---------|--------|
| 10.625         | 0-5150        | 8.625   | 32       | J55   | LTC  | 7.921*  | New       | 3928        | 2533           | 1.23     | 1.52    | 1.78   |

New Production Casing ran in a 7.875" hole filled with 9.2 ppg mud

| Hole Size<br>(in) | Interval<br>(ft) | OD<br>(in) | Wt<br>(ppf) | Grade | Conn | ID<br>(in) | Condition | Burst<br>(psi) | Collapse<br>(psi) | Burst<br>SF | Coll<br>SF | Ten<br>SF |
|-------------------|------------------|------------|-------------|-------|------|------------|-----------|----------------|-------------------|-------------|------------|-----------|
| 7.875             | 0-15445          | 5.500      | 17          | P110  | BTC  | 4.892      | New       | 10640          | 7480              | 1.22        | 2.11       | 1.47      |

\*SPECIAL DRIFT TO 7.875"

### **Casing Design Assumptions:**

#### **Burst Loads**

##### CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

##### CSG Test (Intermediate)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the Intermediate hole TD to Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

##### CSG Test (Production)

- Internal: Displacement fluid + 80% CSG Burst rating
- External: Pore Pressure from the well TD the Intermediate CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

##### Gas Kick (Surface/Intermediate)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section (e.g. Gas Kick while drilling the production hole section is a burst load used to design the intermediate CSG)
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

##### Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the Intermediate CSG shoe and 8.5 ppg MWE to surface

#### **Collapse Loads**

##### Lost Circulation (Surface/Intermediate)

- Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the intermediate CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

##### Cementing (Surface/Intermediate/Production)

- Internal: Displacement Fluid
- External: Cement Slurries to TOC, MW to surface

##### Full Evacuation (Production)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

#### **Tension Loads**

##### Running CSG (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

##### Green Cement (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement pressure + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.

#### 4. CEMENT PROGRAM

##### Surface Interval

| Interval                                                  | Amount<br>sx | Ft of<br>Fill | Type                                                                                                                                                              | Gal/Sk | PPG  | Ft <sup>3</sup> /sk | 24 Hr<br>Comp |
|-----------------------------------------------------------|--------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|---------------------|---------------|
| 0' – 900'<br>(125% Excess)                                | 510          | 900           | Premium Plus cement with 1 % Calcium Chloride - Flake (Accelerator), 4 % Bentonite (Light Weight Additive), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) | 9.14   | 13.5 | 1.73                | 888           |
| 900' – <sup>1315'</sup> <del>1280'</del><br>(125% Excess) | 280          | 380           | Premium Plus cement with 1 % Calcium Chloride - Flake (Accelerator)                                                                                               | 6.34   | 14.8 | 1.34                | 1416          |

##### Intermediate Interval

| Interval                                       | Amount<br>sx | Ft of<br>Fill | Type                                                                                       | Gal/Sk | PPG  | Ft <sup>3</sup> /sk | 24 Hr<br>Comp |
|------------------------------------------------|--------------|---------------|--------------------------------------------------------------------------------------------|--------|------|---------------------|---------------|
| <b>Lead:</b><br>0' – 4190'<br>(125% Excess)    | 950          | 4190          | Halliburton Light Premium Plus Cement with 5% Salt (Accelerator), 0.25 % HR-800 (Retarder) | 9.84   | 12.9 | 1.85                | 771           |
| <b>Tail:</b><br>4190' – 5150'<br>(125% Excess) | 350          | 960           | Premium Plus cement                                                                        | 6.34   | 14.8 | 1.33                | 1779          |

##### Production Casing

| Interval                                        | Amount<br>sx | Ft of<br>Fill | Type                                                                                                                                                                                               | Gal/Sk | PPG  | Ft <sup>3</sup> /sk | 24 Hr<br>Comp |
|-------------------------------------------------|--------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|---------------------|---------------|
| <b>Lead:</b><br>4000' – 10000'<br>(100% Excess) | 660          | 6000          | TUNED LIGHT (TM) SYSTEM<br>3 lbm/sk Kol-Seal (Lost Circulation Additive),<br>0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive), 0.25 lbm/sk HR-800 (Retarder)                                  | 14.05  | 10.2 | 2.95                | 947           |
| <b>Tail:</b><br>10000' – 15445'<br>(40% Excess) | 800          | 5445          | Super H Cement, 0.5 % Halad(R)-344 (Low Fluid Loss Control), 0.4 % CFR-3 (Dispersant), 3 lbm/sk Salt (Accelerator), 0.3 % HR-800 (Retarder), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) | 8.38   | 13.2 | 1.66                | 615           |

The volumes indicated above may be revised depending on caliper measurement.

#### 5. DIRECTIONAL PLAN

Please see attached directional plan

#### 6. PRESSURE CONTROL EQUIPMENT

Surface: <sup>1375'</sup>~~1280'~~ None.

Intermediate and Production: ~~1280'~~ MD/TVD – 15445' MD / 11152' TVD. Intermediate and Production hole will be drilled with a 13-5/8" 10M three ram stack with a 5M annular preventer and a 5M Choke Manifold.

- a. All BOP's and associated equipment will be tested in accordance with Onshore Order #2 (250/5000 psi on rams for 10 minutes each and 250/3500 psi for 10 minutes for annular preventer, equal to 70% of working pressure) with a third party BOP testing service before drilling out the surface casing shoe. A Multibowl wellhead system will be used in this well therefore the BOPE test will cover the test requirements for the Intermediate and Production sections.
- b. The Surface and Intermediate casings strings will be tested to 70% of their burst rating for 30 minutes. This will also test the seals of the lock down pins that hold the pack-off in place in the Multibowl wellhead system.

See  
COA

- c. Pipe rams will be function tested every 24 hours and blind rams will be tested each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be accommodated on the drilling spool below the ram-type BOP.
- d. The BOPE test will be repeated within 21 days of the original test, on the first trip, if drilling the intermediate or production section takes more time than planned.
- e. Other accessory BOP equipment will include a floor safety valve, choke lines, and choke manifold having a 5000 psi working pressure rating and tested to 5000 psi.
- f. The Operator also requests a variance to connect the BOP choke outlet to the choke manifold using a co-flex hose manufactured by Contitech Rubber Industrial KFT. It is a 3" ID x 35' flexible hose with a 10,000 psi working pressure. It has been tested to 15,000 psi and is built to API Spec 16C. Once the flex line is installed it will be tied down with safety clamps (certifications attached).
- g. BOP & Choke manifold diagrams attached.

See  
COA

## 7. MUD PROGRAM:

| 1375' Depth                          | Mud Wt<br>ppg | Vis<br>Sec | Fluid<br>Loss | Type System                       |
|--------------------------------------|---------------|------------|---------------|-----------------------------------|
| 0' - 1280'                           | 8.5           | 28 - 38    | NC            | Fresh Water / Spud Mud            |
| 1280' - 5150'                        | 10.2          | 28 - 32    | NC            | Fresh Water / NaCl Brine          |
| 5150' - 10400' (Vertical)            | 9.2           | 28 - 34    | NC            | Cut Brine / Sweeps                |
| 10400' - 15445' (Curve & Horizontal) | 9.2           | 32 - 50    | < 18          | Duo Vis / Salt Gel / Starch / PAC |

**Remarks:** Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

## 8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

- a. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
- b. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. **If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM.**

See  
COA

## 9. POTENTIAL HAZARDS:

- a. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.
- b. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is **0.463 psi/ft.** Maximum anticipated bottom hole pressure is **5158 psi.**
- c. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

See  
COA

## 10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

Road and location construction will begin after the APD approval. Move in operations and drilling is expected to take 35 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

## 11. WIRELINE LOGGING / MUD LOGGING / LWD

*See COF*

- a. Wireline logging: None
- b. Mud loggers to be rigged up from conductor shoe to TD.
- c. Acquire GR while drilling, from Int casing shoe to TD.

## COMPANY PERSONNEL:

| <u>Name</u>      | <u>Title</u>                 | <u>Office Phone</u> | <u>Mobile Phone</u> |
|------------------|------------------------------|---------------------|---------------------|
| Anar Khalilov    | Drilling Engineer            | (713)985-6959       | (832) 205-6365      |
| Sebastian Millan | Drilling Engineer Supervisor | (713)350-4950       | (832) 528-3268      |
| Roger Allen      | Drilling Superintendent      | (713)215-7617       | (281) 682-3919      |
| Oscar Quintero   | Drilling Manager             | (713)985-6343       | (713) 689-4946      |

---

**From:** Ruidiaz-Santiago, Cyd M  
**Sent:** Tuesday, January 07, 2014 10:58 AM  
**To:** Cranfill, John R; Stewart, David  
**Cc:** Evans, Joseph M; Gartland, Jeff; Garoon, Jeffrey A  
**Subject:** RE: APD Deficiencies- Foxglove 29 Federal #4H, 5H, 6H, 7H

David,

Here are the top most perforation depths for the Foxglove wells:

Foxglove 29 Fed 4H- -7160 SS/10,915 TVD/ 10,950 MD

Foxglove 29 Fed 5H- -7170 SS/10,940 TVD/ 11,000 MD

Foxglove 29 Fed 6H- -7198 SS/10,960 TVD/ 11,050 MD

Foxglove 29 Fed 7H- -7210 SS/ 10,973 TVD/ 11,070 MD

Let me know if you need anything else.

**Cyd M. Ruidíaz-Santiago**

*Geologist*

*Permian-Primary SE NM RMT | OXY USA Inc.*

*Rm. 25.091 | Tel. 713.985.6973 | Cel. 832.331.5913*

*5 Greenway Plaza, Suite 110*

*Houston, TX 77049*

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**From:** Cranfill, John R  
**Sent:** Monday, January 06, 2014 2:14 PM  
**To:** Stewart, David  
**Cc:** Evans, Joseph M; Ruidiaz-Santiago, Cyd M; Gartland, Jeff; Garoon, Jeffrey A; Wilson, Jim B (RWI Construction Inc )  
**Subject:** RE: APD Deficiencies- Foxglove 29 Federal #4H, 5H, 6H, 7H

David,

Cyd will be providing you the top most perforation depths for these wells. In short we will be completing back into the heel of the lateral some but not totally. On average we should be a total of 500-530' off the lease line @ 45 degrees based on the top most productive interval of the 2<sup>nd</sup> Bone Spring Sand.

We checked and this is what Cimarex also did in their Federal wells in the area (Dos Equis 12 #1-3).

Thanks,

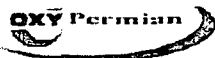
**John Cranfill**

Sr. Reservoir Engineer / Permian Primary Southeast New Mexico

**OXY USA Inc.**

p. 713.985.6953 / c. 832.312.9593 / f. 713.985.1268

[John\\_Cranfill@oxy.com](mailto:John_Cranfill@oxy.com)



F29F 5H  
Lea County, New Mexico  
Northing: 467061.10  
Easting: 727869.00  
Design #1

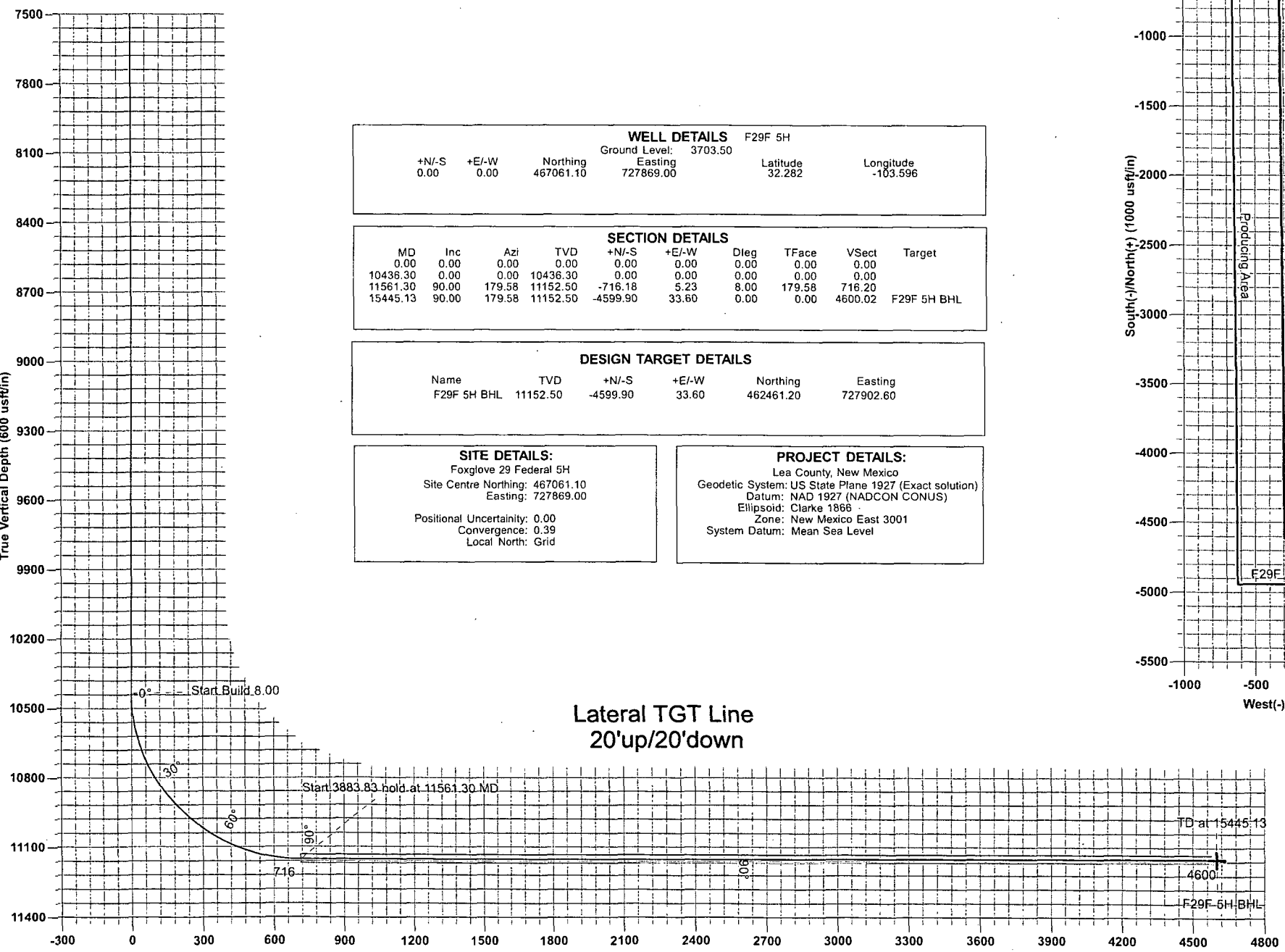


To convert a Magnetic Direction to a Grid Direction, Add 6.92°  
To convert a True Direction to a Grid Direction, Subtract 0.39°

Remarks to Grid North  
True North: -0.39°  
Magnetic North: 6.92°  
Magnetic Field  
Strength: 48414.0snT  
Dip Angle: 60.18°  
Date: 10/11/2013  
Model: IGRF2010



KB @ 3727.50usft  
Gr @ 3703.50



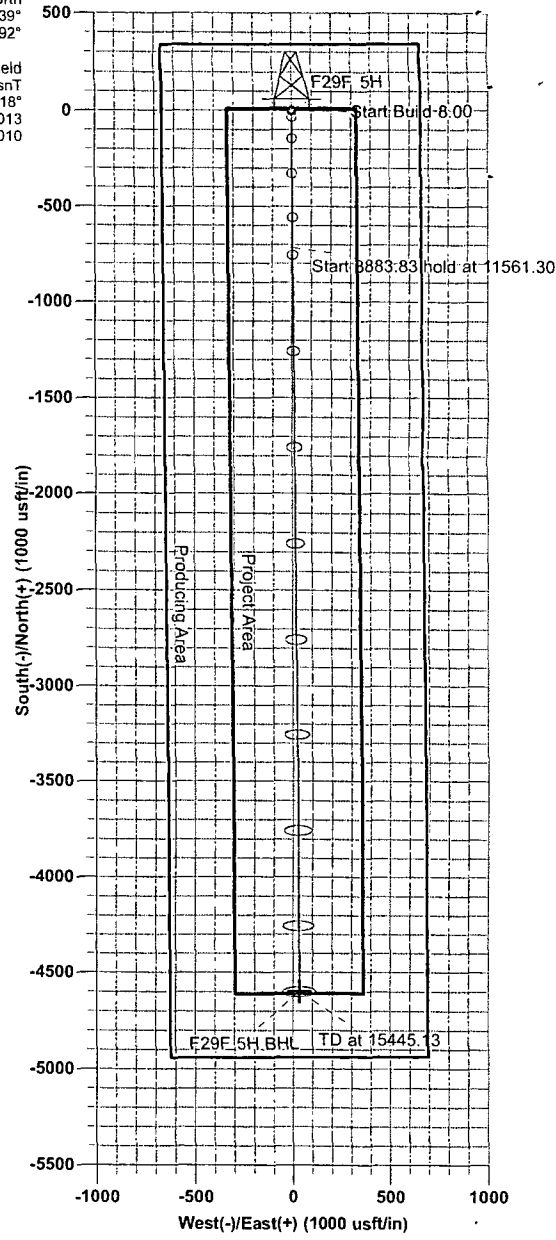
| WELL DETAILS F29F 5H  |       |           |           |          |           |  |
|-----------------------|-------|-----------|-----------|----------|-----------|--|
| Ground Level: 3703.50 |       |           |           |          |           |  |
| +N/-S                 | +E/-W | Northing  | Easting   | Latitude | Longitude |  |
| 0.00                  | 0.00  | 467061.10 | 727869.00 | 32.282   | -103.596  |  |

| SECTION DETAILS |       |        |          |          |       |      |        |         |             |
|-----------------|-------|--------|----------|----------|-------|------|--------|---------|-------------|
| MD              | Inc   | Azi    | TVD      | +N/-S    | +E/-W | Dleg | TFace  | VSect   | Target      |
| 0.00            | 0.00  | 0.00   | 0.00     | 0.00     | 0.00  | 0.00 | 0.00   | 0.00    |             |
| 10436.30        | 0.00  | 0.00   | 10436.30 | 0.00     | 0.00  | 0.00 | 0.00   | 0.00    |             |
| 11561.30        | 90.00 | 179.58 | 11152.50 | -716.18  | 5.23  | 8.00 | 179.58 | 716.20  |             |
| 15445.13        | 90.00 | 179.58 | 11152.50 | -4599.90 | 33.60 | 0.00 | 0.00   | 4600.02 | F29F 5H BHL |

| DESIGN TARGET DETAILS |          |          |       |           |           |
|-----------------------|----------|----------|-------|-----------|-----------|
| Name                  | TVD      | +N/-S    | +E/-W | Northing  | Easting   |
| F29F 5H BHL           | 11152.50 | -4599.90 | 33.60 | 462461.20 | 727902.60 |

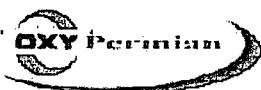
**SITE DETAILS:**  
Foxglove 29 Federal 5H  
Site Centre Northing: 467061.10  
Easting: 727869.00  
Positional Uncertainty: 0.00  
Convergence: 0.39  
Local North: Grid

**PROJECT DETAILS:**  
Lea County, New Mexico  
Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001  
System Datum: Mean Sea Level

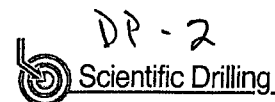


Jody Barclay  
13:57, October 11 2013  
Scientific Drilling  
2740 N. Highway 287

DP-1



# Scientific Drilling Planning Report



|           |                        |                              |                   |
|-----------|------------------------|------------------------------|-------------------|
| Database: | CompassC               | Local Co-ordinate Reference: | Well F29F 5H      |
| Company:  | OXY                    | TVD Reference:               | KB @ 3727.50usft  |
| Project:  | Lea County, New Mexico | MD Reference:                | KB @ 3727.50usft  |
| Site:     | Foxglove 29 Federal 5H | North Reference:             | Grid              |
| Well:     | F29F 5H                | Survey Calculation Method:   | Minimum Curvature |
| Wellbore: | Original Wellbore      |                              |                   |
| Design:   | Design #1              |                              |                   |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project:    | Lea County, New Mexico               |               |                |
| 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                  |     | Foxglove 29 Federal 5H |                 |            |                   |      |
| Site Position:        |     | Northing:              | 467,061.10 usft | Latitude:  | 32.282            |      |
| From:                 | Map | Easting:               | 727,869.00 usft | Longitude: | -103.596          |      |
| Position Uncertainty: |     | 0.00 usft              | Slot Radius:    | 13-3/16 "  | Grid Convergence: | 0.39 |

|                      |           |                     |           |                 |               |          |
|----------------------|-----------|---------------------|-----------|-----------------|---------------|----------|
| Well                 | F29F 5H   |                     |           |                 |               |          |
| Well Position        | +N/-S     | 0.00 usft           | Northing: | 467,061.10 usft | Latitude:     | 32.282   |
|                      | +E/-W     | 0.00 usft           | Easting:  | 727,869.00 usft | Longitude:    | -103.596 |
| Position Uncertainty | 0.00 usft | Wellhead Elevation: | 0.00 usft | Ground Level:   | 3,703.50 usft |          |

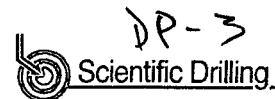
|           |                   |             |                    |                  |                        |
|-----------|-------------------|-------------|--------------------|------------------|------------------------|
| Wellbore: | Original Wellbore |             |                    |                  |                        |
| Magnetics | Model Name        | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | IGRF2010          | 10/11/2013  | 7.32               | 60.18            | 48,414                 |

|                   |                            |                 |                 |                  |
|-------------------|----------------------------|-----------------|-----------------|------------------|
| Design:           | Design #1                  |                 |                 |                  |
| Audit Notes:      |                            |                 |                 |                  |
| Version:          | Phase:                     | PROTOTYPE       | Tie On Depth:   | 0.00             |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |
|                   | 0.00                       | 0.00            | 0.00            | 179.58           |

|                             |                    |                |                             |                 |                 |                               |                              |                             |            |             |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|-------------|
| Plan Sections               |                    |                |                             |                 |                 |                               |                              |                             |            |             |
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) | TFO<br>(°) | Target      |
| 0.00                        | 0.00               | 0.00           | 0.00                        | 0.00            | 0.00            | 0.00                          | 0.00                         | 0.00                        | 0.00       |             |
| 10,436.30                   | 0.00               | 0.00           | 10,436.30                   | 0.00            | 0.00            | 0.00                          | 0.00                         | 0.00                        | 0.00       |             |
| 11,561.30                   | 90.00              | 179.58         | 11,152.50                   | -716.18         | 5.23            | 8.00                          | 8.00                         | 0.00                        | 179.58     |             |
| 15,445.13                   | 90.00              | 179.58         | 11,152.50                   | -4,599.90       | 33.60           | 0.00                          | 0.00                         | 0.00                        | 0.00       | F29F 5H BHL |



Scientific Drilling  
Planning Report

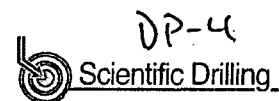


|           |                        |                              |                   |
|-----------|------------------------|------------------------------|-------------------|
| Database: | CompassC               | Local Co-ordinate Reference: | Well F29F 5H      |
| Company:  | OXY                    | TVD Reference:               | KB @ 3727.50usft  |
| Project:  | Lea County, New Mexico | MD Reference:                | KB @ 3727.50usft  |
| Site:     | Foxglove 29 Federal 5H | North Reference:             | Grid              |
| Well:     | F29F 5H                | Survey Calculation Method:   | Minimum Curvature |
| Wellbore: | Original Wellbore      |                              |                   |
| Design:   | Design #1              |                              |                   |

| 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 100.00                | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 200.00                | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 300.00                | 0.00            | 0.00        | 300.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 400.00                | 0.00            | 0.00        | 400.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 500.00                | 0.00            | 0.00        | 500.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 600.00                | 0.00            | 0.00        | 600.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 700.00                | 0.00            | 0.00        | 700.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 800.00                | 0.00            | 0.00        | 800.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 900.00                | 0.00            | 0.00        | 900.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,000.00              | 0.00            | 0.00        | 1,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,100.00              | 0.00            | 0.00        | 1,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,200.00              | 0.00            | 0.00        | 1,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00              | 0.00            | 0.00        | 1,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00              | 0.00            | 0.00        | 1,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00              | 0.00            | 0.00        | 1,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00              | 0.00            | 0.00        | 1,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,700.00              | 0.00            | 0.00        | 1,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00              | 0.00            | 0.00        | 1,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00              | 0.00            | 0.00        | 1,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00              | 0.00            | 0.00        | 2,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00              | 0.00            | 0.00        | 2,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00              | 0.00            | 0.00        | 2,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00              | 0.00            | 0.00        | 2,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00              | 0.00            | 0.00        | 2,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00              | 0.00            | 0.00        | 2,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00              | 0.00            | 0.00        | 2,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00              | 0.00            | 0.00        | 2,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00              | 0.00            | 0.00        | 2,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00              | 0.00            | 0.00        | 2,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00              | 0.00            | 0.00        | 3,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00              | 0.00            | 0.00        | 3,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00              | 0.00            | 0.00        | 3,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00              | 0.00            | 0.00        | 3,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00              | 0.00            | 0.00        | 3,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00              | 0.00            | 0.00        | 3,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00              | 0.00            | 0.00        | 3,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00              | 0.00            | 0.00        | 3,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00              | 0.00            | 0.00        | 3,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00              | 0.00            | 0.00        | 3,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00              | 0.00            | 0.00        | 4,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00              | 0.00            | 0.00        | 4,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00              | 0.00            | 0.00        | 4,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00              | 0.00            | 0.00        | 4,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00              | 0.00            | 0.00        | 4,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00              | 0.00            | 0.00        | 4,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00              | 0.00            | 0.00        | 4,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00              | 0.00            | 0.00        | 4,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00              | 0.00            | 0.00        | 4,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00              | 0.00            | 0.00        | 4,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00              | 0.00            | 0.00        | 5,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00              | 0.00            | 0.00        | 5,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00              | 0.00            | 0.00        | 5,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00              | 0.00            | 0.00        | 5,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |



# Scientific Drilling Planning Report



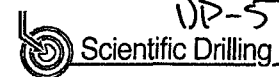
|           |                        |                              |                   |
|-----------|------------------------|------------------------------|-------------------|
| Database: | CompassC               | Local Co-ordinate Reference: | Well F29F 5H      |
| Company:  | OXY                    | TVD Reference:               | KB @ 3727.50usft  |
| Project:  | Lea County, New Mexico | MD Reference:                | KB @ 3727.50usft  |
| Site:     | Foxglove 29 Federal 5H | North Reference:             | Grid              |
| Well:     | F29F 5H                | Survey Calculation Method:   | Minimum Curvature |
| Wellbore: | Original Wellbore      |                              |                   |
| Design:   | Design #1              |                              |                   |

## 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,400.00              | 0.00            | 0.00        | 5,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00              | 0.00            | 0.00        | 5,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00              | 0.00            | 0.00        | 5,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00              | 0.00            | 0.00        | 5,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00              | 0.00            | 0.00        | 5,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00              | 0.00            | 0.00        | 5,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00              | 0.00            | 0.00        | 6,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00              | 0.00            | 0.00        | 6,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00              | 0.00            | 0.00        | 6,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00              | 0.00            | 0.00        | 6,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00              | 0.00            | 0.00        | 6,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00              | 0.00            | 0.00        | 6,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00              | 0.00            | 0.00        | 6,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00              | 0.00            | 0.00        | 6,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00              | 0.00            | 0.00        | 6,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00              | 0.00            | 0.00        | 6,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00              | 0.00            | 0.00        | 7,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00              | 0.00            | 0.00        | 7,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00              | 0.00            | 0.00        | 7,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00              | 0.00            | 0.00        | 7,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00              | 0.00            | 0.00        | 7,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00              | 0.00            | 0.00        | 7,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00              | 0.00            | 0.00        | 7,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00              | 0.00            | 0.00        | 7,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00              | 0.00            | 0.00        | 7,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00              | 0.00            | 0.00        | 7,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00              | 0.00            | 0.00        | 8,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00              | 0.00            | 0.00        | 8,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00              | 0.00            | 0.00        | 8,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00              | 0.00            | 0.00        | 8,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00              | 0.00            | 0.00        | 8,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00              | 0.00            | 0.00        | 8,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00              | 0.00            | 0.00        | 8,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00              | 0.00            | 0.00        | 8,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,800.00              | 0.00            | 0.00        | 8,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 8,900.00              | 0.00            | 0.00        | 8,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00              | 0.00            | 0.00        | 9,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,100.00              | 0.00            | 0.00        | 9,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,200.00              | 0.00            | 0.00        | 9,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,300.00              | 0.00            | 0.00        | 9,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,400.00              | 0.00            | 0.00        | 9,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,500.00              | 0.00            | 0.00        | 9,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,600.00              | 0.00            | 0.00        | 9,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,700.00              | 0.00            | 0.00        | 9,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,800.00              | 0.00            | 0.00        | 9,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 9,900.00              | 0.00            | 0.00        | 9,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 10,000.00             | 0.00            | 0.00        | 10,000.00             | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 10,100.00             | 0.00            | 0.00        | 10,100.00             | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 10,200.00             | 0.00            | 0.00        | 10,200.00             | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 10,300.00             | 0.00            | 0.00        | 10,300.00             | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 10,400.00             | 0.00            | 0.00        | 10,400.00             | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 10,436.30             | 0.00            | 0.00        | 10,436.30             | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 10,450.00             | 1.10            | 179.58      | 10,450.00             | -0.13        | 0.00         | 0.13                    | 8.00                    | 8.00                   | 0.00                  |
| 10,500.00             | 5.10            | 179.58      | 10,499.92             | -2.83        | 0.02         | 2.83                    | 8.00                    | 8.00                   | 0.00                  |



# Scientific Drilling Planning Report

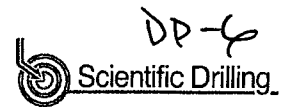


|           |                        |                              |                   |
|-----------|------------------------|------------------------------|-------------------|
| Database: | CompassC               | Local Co-ordinate Reference: | Well F29F 5H      |
| Company:  | OXY                    | TVD Reference:               | KB @ 3727.50usft  |
| Project:  | Lea County, New Mexico | MD Reference:                | KB @ 3727.50usft  |
| Site:     | Foxglove 29 Federal 5H | North Reference:             | Grid              |
| Well:     | F29F 5H                | Survey Calculation Method:   | Minimum Curvature |
| Wellbore: | Original Wellbore      |                              |                   |
| Design:   | Design #1              |                              |                   |

| 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) |  |
| 10,550.00             | 9.10            | 179.58      | 10,549.52             | -9.01        | 0.07         | 9.01                    | 8.00                    | 8.00                   | 0.00                  |  |
| 10,600.00             | 13.10           | 179.58      | 10,598.58             | -18.63       | 0.14         | 18.63                   | 8.00                    | 8.00                   | 0.00                  |  |
| 10,650.00             | 17.10           | 179.58      | 10,646.84             | -31.64       | 0.23         | 31.65                   | 8.00                    | 8.00                   | 0.00                  |  |
| 10,700.00             | 21.10           | 179.58      | 10,694.08             | -48.00       | 0.35         | 48.00                   | 8.00                    | 8.00                   | 0.00                  |  |
| 10,750.00             | 25.10           | 179.58      | 10,740.07             | -67.61       | 0.49         | 67.61                   | 8.00                    | 8.00                   | 0.00                  |  |
| 10,800.00             | 29.10           | 179.58      | 10,784.57             | -90.38       | 0.66         | 90.38                   | 8.00                    | 8.00                   | 0.00                  |  |
| 10,850.00             | 33.10           | 179.58      | 10,827.38             | -116.19      | 0.85         | 116.20                  | 8.00                    | 8.00                   | 0.00                  |  |
| 10,900.00             | 37.10           | 179.58      | 10,868.28             | -144.93      | 1.06         | 144.94                  | 8.00                    | 8.00                   | 0.00                  |  |
| 10,950.00             | 41.10           | 179.58      | 10,907.07             | -176.46      | 1.29         | 176.46                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,000.00             | 45.10           | 179.58      | 10,943.58             | -210.61      | 1.54         | 210.62                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,050.00             | 49.10           | 179.58      | 10,977.61             | -247.23      | 1.81         | 247.23                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,100.00             | 53.10           | 179.58      | 11,009.00             | -286.13      | 2.09         | 286.14                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,150.00             | 57.10           | 179.58      | 11,037.61             | -327.12      | 2.39         | 327.13                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,200.00             | 61.10           | 179.58      | 11,063.28             | -370.02      | 2.70         | 370.03                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,250.00             | 65.10           | 179.58      | 11,085.90             | -414.59      | 3.03         | 414.60                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,300.00             | 69.10           | 179.58      | 11,105.36             | -460.64      | 3.36         | 460.65                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,350.00             | 73.10           | 179.58      | 11,121.55             | -507.93      | 3.71         | 507.95                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,400.00             | 77.10           | 179.58      | 11,134.41             | -556.24      | 4.06         | 556.25                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,450.00             | 81.10           | 179.58      | 11,143.87             | -605.33      | 4.42         | 605.34                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,500.00             | 85.10           | 179.58      | 11,149.88             | -654.95      | 4.78         | 654.97                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,550.00             | 89.10           | 179.58      | 11,152.41             | -704.88      | 5.15         | 704.89                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,561.30             | 90.00           | 179.58      | 11,152.50             | -716.18      | 5.23         | 716.20                  | 8.00                    | 8.00                   | 0.00                  |  |
| 11,600.00             | 90.00           | 179.58      | 11,152.50             | -754.87      | 5.51         | 754.89                  | 0.00                    | 0.00                   | 0.00                  |  |
| 11,700.00             | 90.00           | 179.58      | 11,152.50             | -854.87      | 6.24         | 854.89                  | 0.00                    | 0.00                   | 0.00                  |  |
| 11,800.00             | 90.00           | 179.58      | 11,152.50             | -954.87      | 6.97         | 954.89                  | 0.00                    | 0.00                   | 0.00                  |  |
| 11,900.00             | 90.00           | 179.58      | 11,152.50             | -1,054.87    | 7.71         | 1,054.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,000.00             | 90.00           | 179.58      | 11,152.50             | -1,154.86    | 8.44         | 1,154.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,100.00             | 90.00           | 179.58      | 11,152.50             | -1,254.86    | 9.17         | 1,254.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,200.00             | 90.00           | 179.58      | 11,152.50             | -1,354.86    | 9.90         | 1,354.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,300.00             | 90.00           | 179.58      | 11,152.50             | -1,454.86    | 10.63        | 1,454.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,400.00             | 90.00           | 179.58      | 11,152.50             | -1,554.85    | 11.36        | 1,554.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,500.00             | 90.00           | 179.58      | 11,152.50             | -1,654.85    | 12.09        | 1,654.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,600.00             | 90.00           | 179.58      | 11,152.50             | -1,754.85    | 12.82        | 1,754.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,700.00             | 90.00           | 179.58      | 11,152.50             | -1,854.85    | 13.55        | 1,854.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,800.00             | 90.00           | 179.58      | 11,152.50             | -1,954.84    | 14.28        | 1,954.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 12,900.00             | 90.00           | 179.58      | 11,152.50             | -2,054.84    | 15.01        | 2,054.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,000.00             | 90.00           | 179.58      | 11,152.50             | -2,154.84    | 15.74        | 2,154.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,100.00             | 90.00           | 179.58      | 11,152.50             | -2,254.83    | 16.47        | 2,254.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,200.00             | 90.00           | 179.58      | 11,152.50             | -2,354.83    | 17.20        | 2,354.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,300.00             | 90.00           | 179.58      | 11,152.50             | -2,454.83    | 17.93        | 2,454.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,400.00             | 90.00           | 179.58      | 11,152.50             | -2,554.83    | 18.66        | 2,554.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,500.00             | 90.00           | 179.58      | 11,152.50             | -2,654.82    | 19.39        | 2,654.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,600.00             | 90.00           | 179.58      | 11,152.50             | -2,754.82    | 20.12        | 2,754.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,700.00             | 90.00           | 179.58      | 11,152.50             | -2,854.82    | 20.85        | 2,854.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,800.00             | 90.00           | 179.58      | 11,152.50             | -2,954.82    | 21.58        | 2,954.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,900.00             | 90.00           | 179.58      | 11,152.50             | -3,054.81    | 22.31        | 3,054.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,000.00             | 90.00           | 179.58      | 11,152.50             | -3,154.81    | 23.04        | 3,154.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,100.00             | 90.00           | 179.58      | 11,152.50             | -3,254.81    | 23.77        | 3,254.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,200.00             | 90.00           | 179.58      | 11,152.50             | -3,354.81    | 24.51        | 3,354.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,300.00             | 90.00           | 179.58      | 11,152.50             | -3,454.80    | 25.24        | 3,454.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,400.00             | 90.00           | 179.58      | 11,152.50             | -3,554.80    | 25.97        | 3,554.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,500.00             | 90.00           | 179.58      | 11,152.50             | -3,654.80    | 26.70        | 3,654.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,600.00             | 90.00           | 179.58      | 11,152.50             | -3,754.79    | 27.43        | 3,754.89                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,700.00             | 90.00           | 179.58      | 11,152.50             | -3,854.79    | 28.16        | 3,854.89                | 0.00                    | 0.00                   | 0.00                  |  |



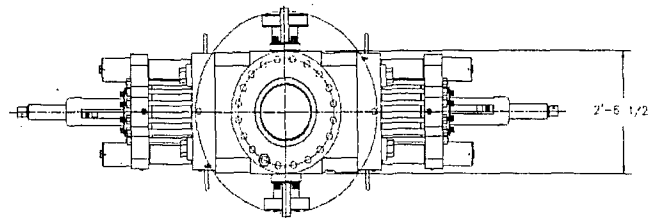
Scientific Drilling  
Planning Report



|           |                        |                              |                   |
|-----------|------------------------|------------------------------|-------------------|
| Database: | CompassC               | Local Co-ordinate Reference: | Well F29F 5H      |
| Company:  | OXY                    | TVD Reference:               | KB @ 3727.50usft  |
| Project:  | Lea County, New Mexico | MD Reference:                | KB @ 3727.50usft  |
| Site:     | Foxglove 29 Federal 5H | North Reference:             | Grid              |
| Well:     | F29F 5H                | Survey Calculation Method:   | Minimum Curvature |
| Wellbore: | Original Wellbore      |                              |                   |
| Design:   | Design #1              |                              |                   |

| 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) |
| 14,800.00             | 90.00           | 179.58      | 11,152.50             | -3,954.79    | 28.89        | 3,954.89                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00             | 90.00           | 179.58      | 11,152.50             | -4,054.79    | 29.62        | 4,054.89                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00             | 90.00           | 179.58      | 11,152.50             | -4,154.78    | 30.35        | 4,154.89                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00             | 90.00           | 179.58      | 11,152.50             | -4,254.78    | 31.08        | 4,254.89                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00             | 90.00           | 179.58      | 11,152.50             | -4,354.78    | 31.81        | 4,354.89                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00             | 90.00           | 179.58      | 11,152.50             | -4,454.78    | 32.54        | 4,454.89                | 0.00                    | 0.00                   | 0.00                  |
| 15,400.00             | 90.00           | 179.58      | 11,152.50             | -4,554.77    | 33.27        | 4,554.89                | 0.00                    | 0.00                   | 0.00                  |
| 15,445.13             | 90.00           | 179.58      | 11,152.50             | -4,599.90    | 33.60        | 4,600.02                | 0.00                    | 0.00                   | 0.00                  |

| 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                   |               |              |            |              |              |                 |                |          |           |
| F29F 5H BHL               | 0.00          | 0.00         | 11,152.50  | -4,599.90    | 33.60        | 462,461.20      | 727,902.60     | 32.269   | -103.596  |
| - plan hits target center |               |              |            |              |              |                 |                |          |           |
| - Point                   |               |              |            |              |              |                 |                |          |           |



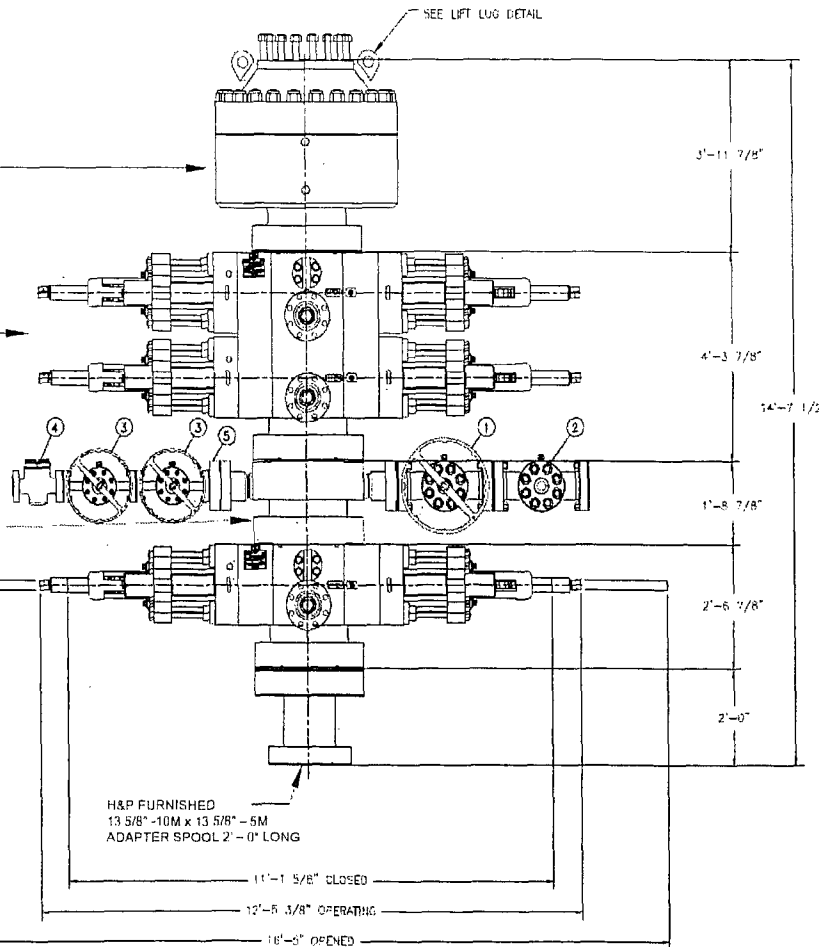
- LEGEND
- ① - 4 1/16"-10M FLANGED END GATE VALVE
  - ② - 4 1/16"-10M FLANGED END GATE VALVE WITH DOUBLE ACTING HYDRAULIC ACTUATOR
  - ③ - 2 1/16"-10M FLANGED END GATE VALVE
  - ④ - 2 1/16"-10M FLANGED END CHECK VALVE
  - ⑤ - 30.41LE STUDDED ADAPTER

SHAFFER BOLTED-COVER SPHERICAL ANNULAR PREVENTER, (API 16A MONOGRAMMED, 13 5/8"-5M WP), 10M BOTTOM FLANGE x 5M STUDDED TOP (WEIGHT = 14,300 LBS WITH SHAFFER API 16A HOT OIL RESISTANT ACRYLONITRILE ELEMENT)

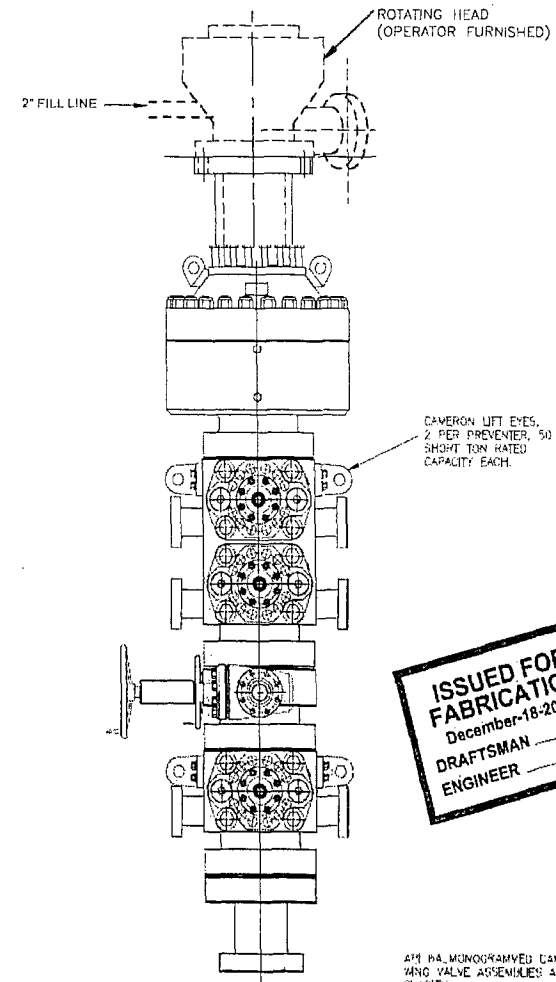
CAMERON UM DOUBLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS & TOP SEALS) IN TOP CAVITY AND CAMERON DS SHEARING BLIND RAMS IN BOTTOM CAVITY. BOTTOM FLANGE x STUDDED TOP (WEIGHT = 21,100 LBS, WITH RAMS)

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

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



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



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

API 16A MONOGRAMMED CAMERON CHOKES AND KILLING VALVE ASSEMBLIES ARE NOT SHOWN FOR CLARITY

WEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS OR QUICK CONNECT FITTINGS

**PROPRIETARY**

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

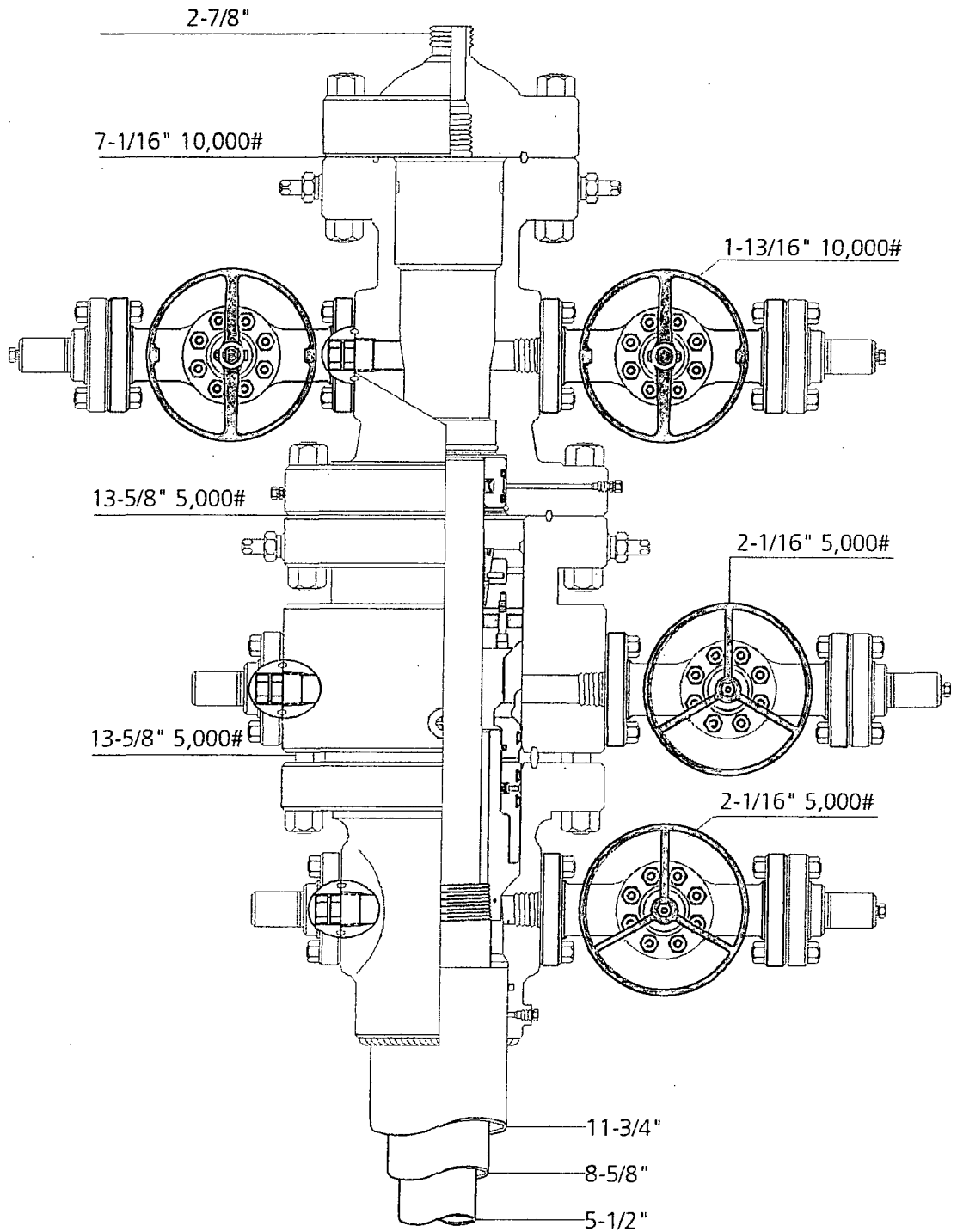
**HELMERICH & PAYNE  
INTERNATIONAL DRILLING CO.**

**13 5/8"-10M BOP 3 RAM STACK  
FLEXRIG3**

| ENGINEERING APPROVAL |                                                                              | DATE                                                                         | TITLE | BY      |
|----------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------|---------|
| 12/13/07             | ADDED SHEET 03                                                               |                                                                              |       | JAV     |
| 4-10-07              | CAMRAM TYPES DOUBLE SILENCED ADAPTER, MOVES 1, 2, 3, AND 4 CHECK VALVE ADDED |                                                                              |       | JND     |
| 4-04-07              | ADDED TO SPACER ADAPTER SPOOL                                                |                                                                              |       | JND     |
| 03-07-07             | ADDED ADAPTER-SPOOL                                                          |                                                                              |       | VAL     |
| 06-13-02             | CONNECTED BOP STACK                                                          |                                                                              |       | VAL     |
| REV                  | DATE                                                                         | DESCRIPTION                                                                  | BY    | SCALE   |
| 1                    | 12/13/07                                                                     | ADDED SHEET 03                                                               | JAV   | 1/4"=1' |
| 2                    | 4-10-07                                                                      | CAMRAM TYPES DOUBLE SILENCED ADAPTER, MOVES 1, 2, 3, AND 4 CHECK VALVE ADDED | JND   |         |
| 3                    | 4-04-07                                                                      | ADDED TO SPACER ADAPTER SPOOL                                                | JND   |         |
| 4                    | 03-07-07                                                                     | ADDED ADAPTER-SPOOL                                                          | VAL   |         |
| 5                    | 06-13-02                                                                     | CONNECTED BOP STACK                                                          | VAL   |         |

CUSTOMER: H&P  
PROJECT: FLEXRIG3  
DRAWN: MTS  
DATE: 6-5-02  
DWG. NO.: 210-P1-07  
SHEET: 1 OF 1

BOP-1

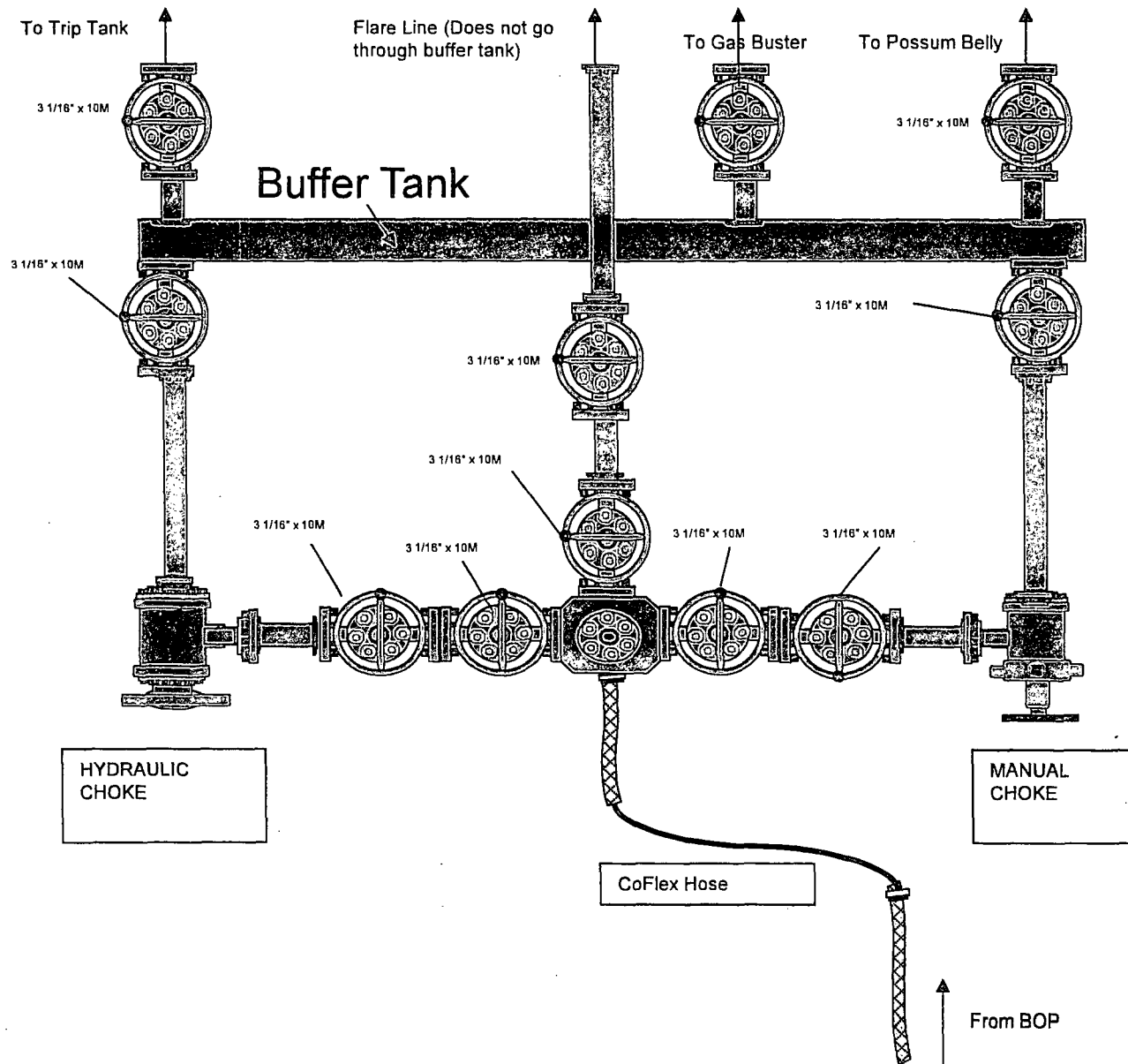


Permian Basin  
MBS



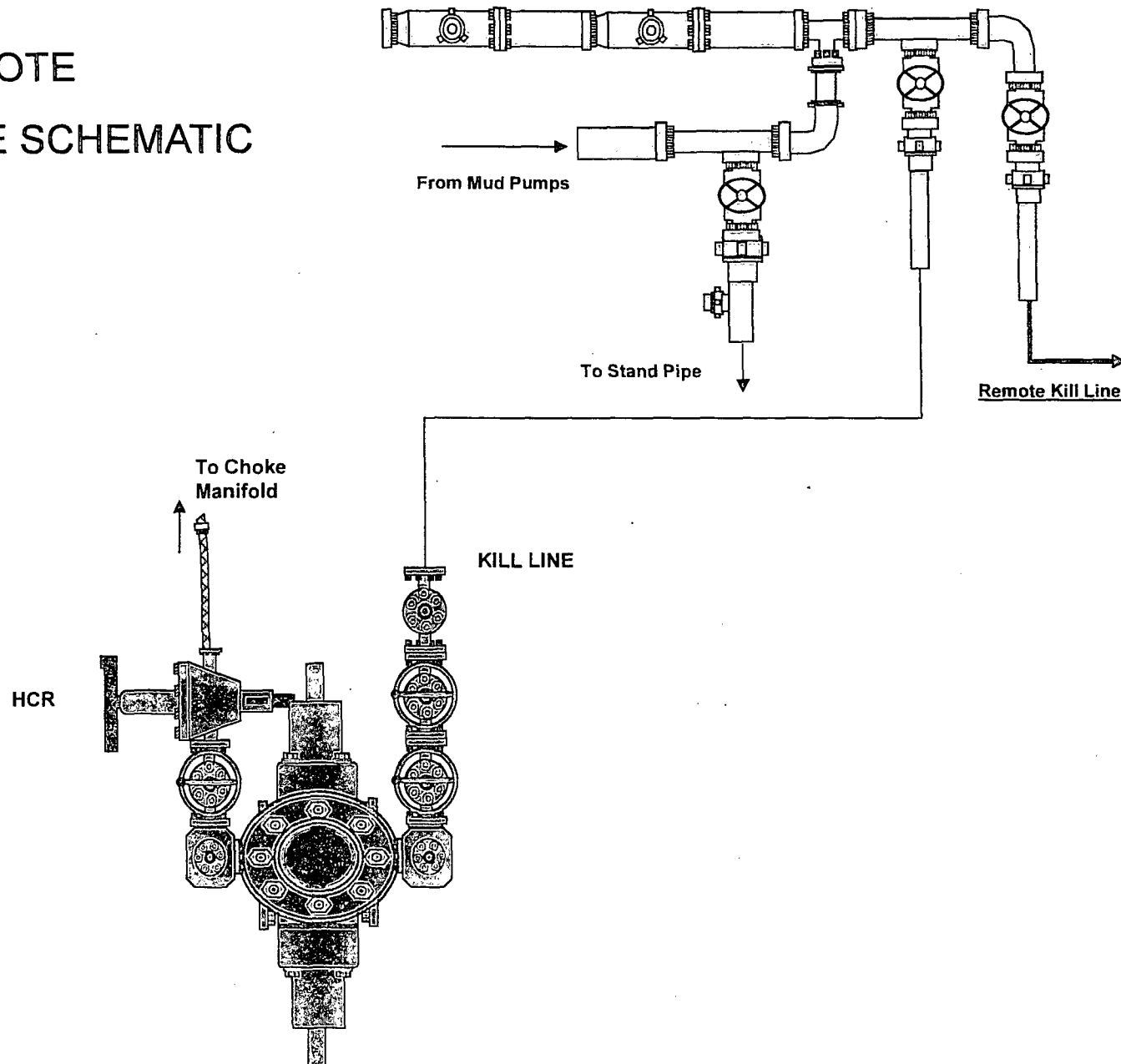
|                |               |                     |          |
|----------------|---------------|---------------------|----------|
| Name: Jeanette | Date: 1-31-13 | Working Pressure: # | 21073221 |
|----------------|---------------|---------------------|----------|

# FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)

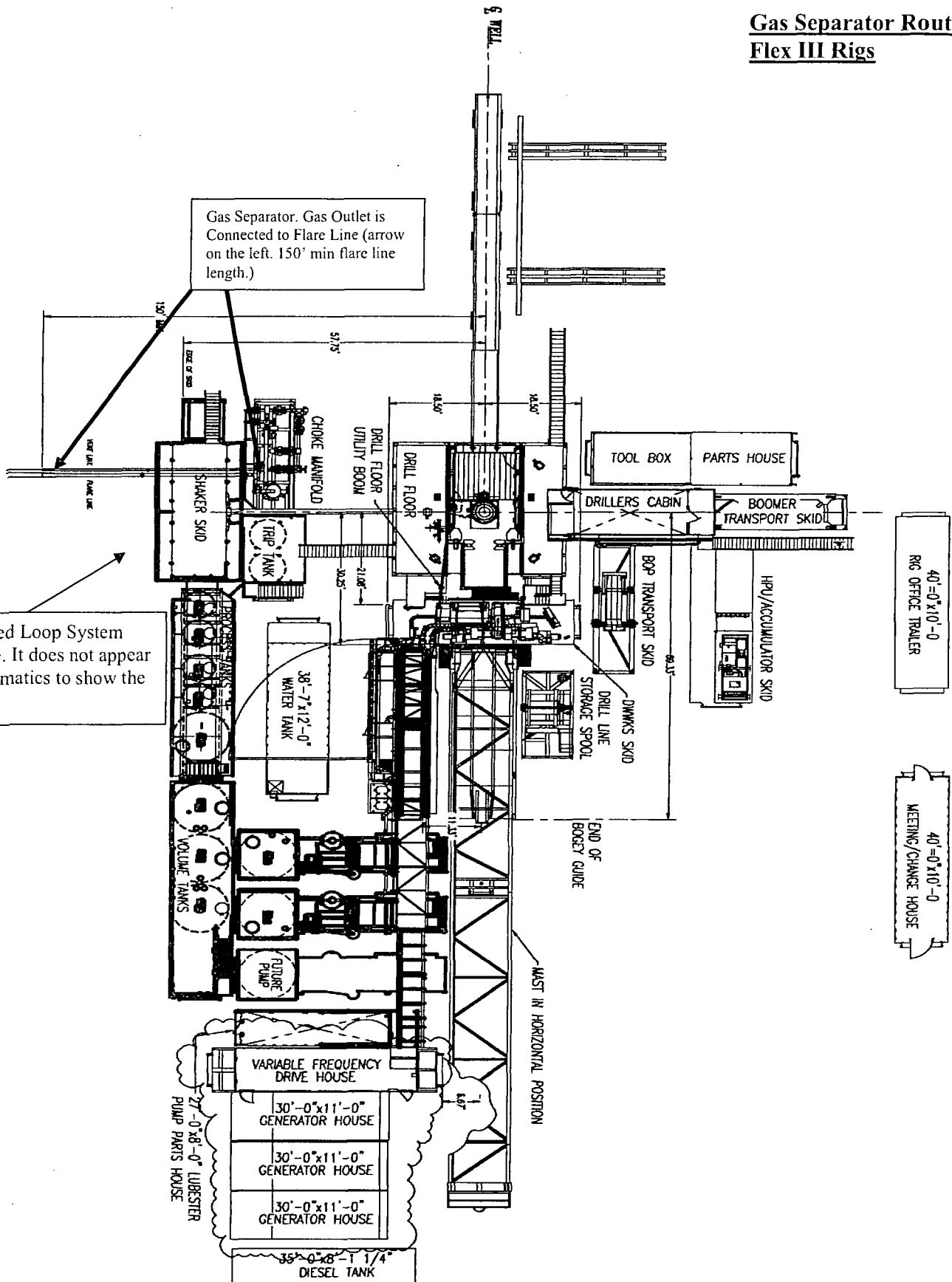


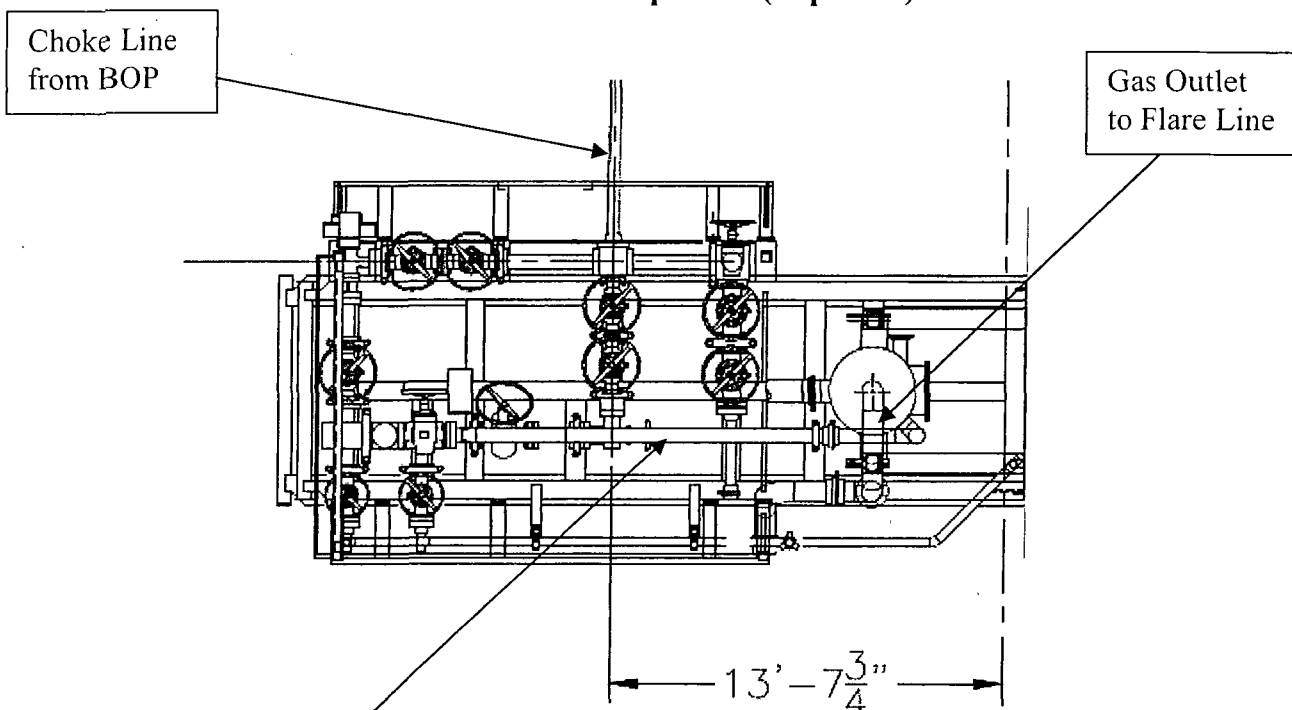
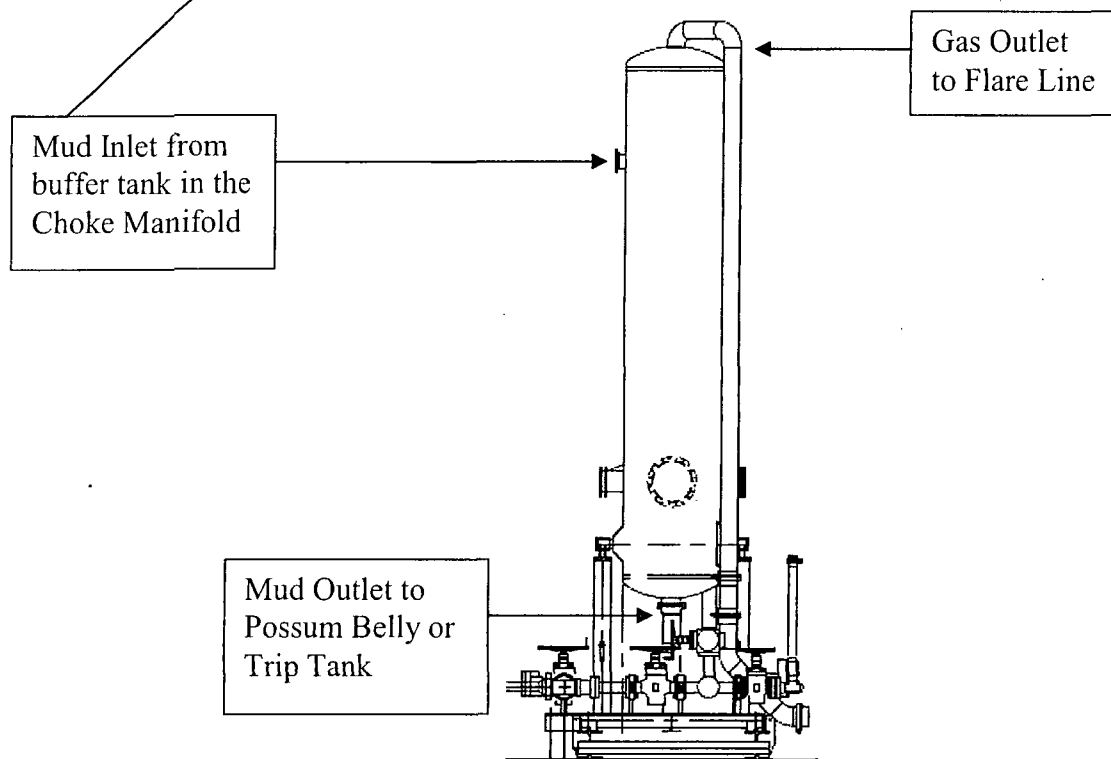
CM-1

# 10M REMOTE KILL LINE SCHEMATIC



# Gas Separator Routing Flex III Rigs



**Choke Manifold – Gas Separator (Top View)****Choke Manifold – Gas Separator (Side View)**

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**CERTIFICATE OF CONFORMITY**

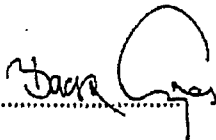
**Supplier** : CONTITECH RUBBER INDUSTRIAL KFT.  
**Equipment** : 6 pcs. Choke and Kill Hose with installed couplings  
**Type** : 3" x 10,67 m WP: 10000 psi  
**Supplier File Number** : 412638  
**Date of Shipment** : April. 2008  
**Customer** : Phoenix Beattie Co.  
**Customer P.o.** : 002491  
**Referenced Standards**  
**/ Codes / Specifications** : API Spec 16 C  
**Serial No.:** 52754,52755,52776,52777,52778,52782

**STATEMENT OF CONFORMITY**

We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

**COUNTRY OF ORIGIN HUNGARY/EU**

Signed : .....



ContiTech Rubber  
Industrial Kft.  
Quality Control Dept.  
(1)

Date: 04. April. 2008

Position: Q.C. Manager





## Material Identification Certificate

|       |        |        |                                  |            |             |      |   |
|-------|--------|--------|----------------------------------|------------|-------------|------|---|
| PA No | 006330 | Client | HELMERICH & PAYNE INT'L DRILLING | Client Ref | 370-369-001 | Page | 1 |
|-------|--------|--------|----------------------------------|------------|-------------|------|---|

[illegible]

We hereby certify that these goods have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industry standards within the requirements of the purchase order as issued to Phoenix Beattie Corporation.

05/23/09.

## Coflex Hose Certification

W-111

# Coflex Hose Certification

FIH-4

Form No 100/12



## Phoenix Beattie Corp

11535 Brittain Park Drive  
Houston, TX 77041  
Tel: (832) 327-0141  
Fax: (832) 327-0148  
E-mail: mail@phoenixbeattie.com  
www.phoenixbeattie.com

## Delivery Note

|                                                                                                                      |             |                             |                                                                                                                                       |             |   |
|----------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------|---|
| <b>Customer Order Number</b>                                                                                         | 370-369-001 | <b>Delivery Note Number</b> | 003078                                                                                                                                | <b>Page</b> | 1 |
| <b>Customer / Invoice Address</b><br>HELMERICH & PAYNE INT'L DRILLING CO<br>1437 SOUTH BOULDER<br>TULSA, OK<br>74119 |             |                             | <b>Delivery / Address</b><br>HELMERICH & PAYNE IDC<br>ATTN: JOE STEPHENSON - RIG 370<br>13609 INDUSTRIAL ROAD<br>HOUSTON, TX<br>77015 |             |   |

|                        |                                         |                                  |             |
|------------------------|-----------------------------------------|----------------------------------|-------------|
| <b>Customer Acc No</b> | <b>Phoenix Beattie Contract Manager</b> | <b>Phoenix Beattie Reference</b> | <b>Date</b> |
| H01                    | JJL                                     | 006330                           | 05/23/2008  |

| Item No | Beattie Part Number / Description                                                                                                                                                                                                                                                                                                                                                                                                                                              | Qty Ordered | Qty Sent | Qty To Follow |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|---------------|
| 1       | HP10CK3A-35-4F1<br>3" 10K 16C C&K HOSE x 35ft OAL CW 4.1/16" API SPEC FLANGE E/<br>End 1: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange<br>End 2: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange<br>c/w BX155 Standard ring groove at each end<br>Suitable for H2S Service<br>Working pressure: 10,000psi<br>Test pressure: 15,000psi<br>Standard: API 16C Full specification<br>Armor Guarding: Included<br>Fire Rating: Not Included<br>Temperature rating: -20 Deg C to +100 Deg C | 1           | 1        | 0             |
| 2       | SECK3-HPF3<br>LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1<br>2 x 160mm ID Safety Clamps<br>2 x 244mm ID Lifting Collars & element C's<br>2 x 7ft Stainless Steel wire rope 3/4" OD<br>4 x 7.75t Shackles                                                                                                                                                                                                                                                                  | 1           | 1        | 0             |
| 3       | SC725-200CS<br>SAFETY CLAMP 200MM 7.25T C/S GALVANISED                                                                                                                                                                                                                                                                                                                                                                                                                         | 1           | 1        | 0             |

Continued...

All goods remain the property of Phoenix Beattie until paid for in full. Any damage or shortage on this delivery must be advised within 5 days.  
Returns may be subject to a handling charge.

Coflex Hose Certification



Fluid Technology

Quality Document

|                                                                                                                                                       |       |                                      |                |                                                                                                                    |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------|------|
| <b>QUALITY CONTROL<br/>INSPECTION AND TEST CERTIFICATE</b>                                                                                            |       |                                      |                | CERT. N°: 746                                                                                                      |      |
| PURCHASER: Phoenix Beattie Co.                                                                                                                        |       |                                      |                | P.O. N°: 002491                                                                                                    |      |
| CONTITECH ORDER N°: 412638                                                                                                                            |       | HOSE TYPE: 3" ID Choke and Kill Hose |                |                                                                                                                    |      |
| HOSE SERIAL N°: 52777                                                                                                                                 |       | NOMINAL / ACTUAL LENGTH: 10,67 m     |                |                                                                                                                    |      |
| W.P. 68,96 MPa                                                                                                                                        | 10000 | psi                                  | T.P. 103,4 MPa | 15000                                                                                                              | psi  |
|                                                                                                                                                       |       |                                      | Duration:      | 60 ~                                                                                                               | min. |
| <p>Pressure test with water at ambient temperature</p> <p align="center">See attachment. (1 page)</p> <p>↑ 10 mm = 10 Min.<br/>→ 10 mm = 25 MPa</p>   |       |                                      |                |                                                                                                                    |      |
| <b>COUPLINGS</b>                                                                                                                                      |       |                                      |                |                                                                                                                    |      |
| Type                                                                                                                                                  |       | Serial N°                            |                | Quality                                                                                                            |      |
| 3" coupling with<br>4 1/16" Flange end                                                                                                                |       | 917 913                              |                | AISI 4130<br><br>AISI 4130                                                                                         |      |
|                                                                                                                                                       |       |                                      |                | Heat N°<br>T7998A<br><br>26984                                                                                     |      |
| <b>INFOCHIP INSTALLED</b>                                                                                                                             |       |                                      |                | API Spec 16 C<br>Temperature rate: "B"                                                                             |      |
| All metal parts are flawless                                                                                                                          |       |                                      |                |                                                                                                                    |      |
| WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT. |       |                                      |                |                                                                                                                    |      |
| Date:<br><br>04. April. 2008                                                                                                                          |       | Inspector                            |                | Quality Control                                                                                                    |      |
|                                                                                                                                                       |       |                                      |                | <b>ContiTech Rubber<br/>Industrial Kit.<br/>Quality Control Dept.</b><br><i>(Signature)</i> (1) <i>(Signature)</i> |      |



## Phoenix Beattie Corp

11535 Brittmoore Park Drive  
Houston, TX 77041  
Tel: (832) 327-0141  
Fax: (832) 327-0148  
E-mail: mail@phoenixbeattie.com  
www.phoenixbeattie.com

## Delivery Note

|                                                                                                               |             |                                                                                                                                |        |      |   |
|---------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------|--------|------|---|
| Customer Order Number                                                                                         | 370-369-001 | Delivery Note Number                                                                                                           | 003078 | Page | 2 |
| Customer / Invoice Address<br>HELMERICH & PAYNE INT'L DRILLING CO<br>1437 SOUTH BOULDER<br>TULSA, OK<br>74119 |             | Delivery / Address<br>HELMERICH & PAYNE IDC<br>ATTN: JOE STEPHENSON - RIG 370<br>13609 INDUSTRIAL ROAD<br>HOUSTON, TX<br>77015 |        |      |   |

|                 |                                  |                           |            |
|-----------------|----------------------------------|---------------------------|------------|
| Customer Acc No | Phoenix Beattie Contract Manager | Phoenix Beattie Reference | Date       |
| H01             | JJL                              | 006330                    | 05/23/2008 |

| Item No | Beattie Part Number / Description                                                                                                                                                                 | Qty Ordered | Qty Sent | Qty To Follow |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|---------------|
| 4       | SC725-132CS<br>SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS                                                                                                                                  | 1           | 1        | 0             |
| 5       | 00CERT-HYDRO<br>HYDROSTATIC PRESSURE TEST CERTIFICATE                                                                                                                                             | 1           | 1        | 0             |
| 6       | 00CERT-LOAD<br>LOAD TEST CERTIFICATES                                                                                                                                                             | 1           | 1        | 0             |
| 7       | 00FREIGHT<br>INBOUND / OUTBOUND FREIGHT<br>PRE-PAY & ADD TO FINAL INVOICE<br>NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERWORK INCLUDING<br>THE PURCHASE ORDER, RIG NUMBER TO ENSURE PROPER PAYMENT | 1           | 1        | 0             |

Phoenix Beattie Inspection Signature :

Received In Good Condition : Signature

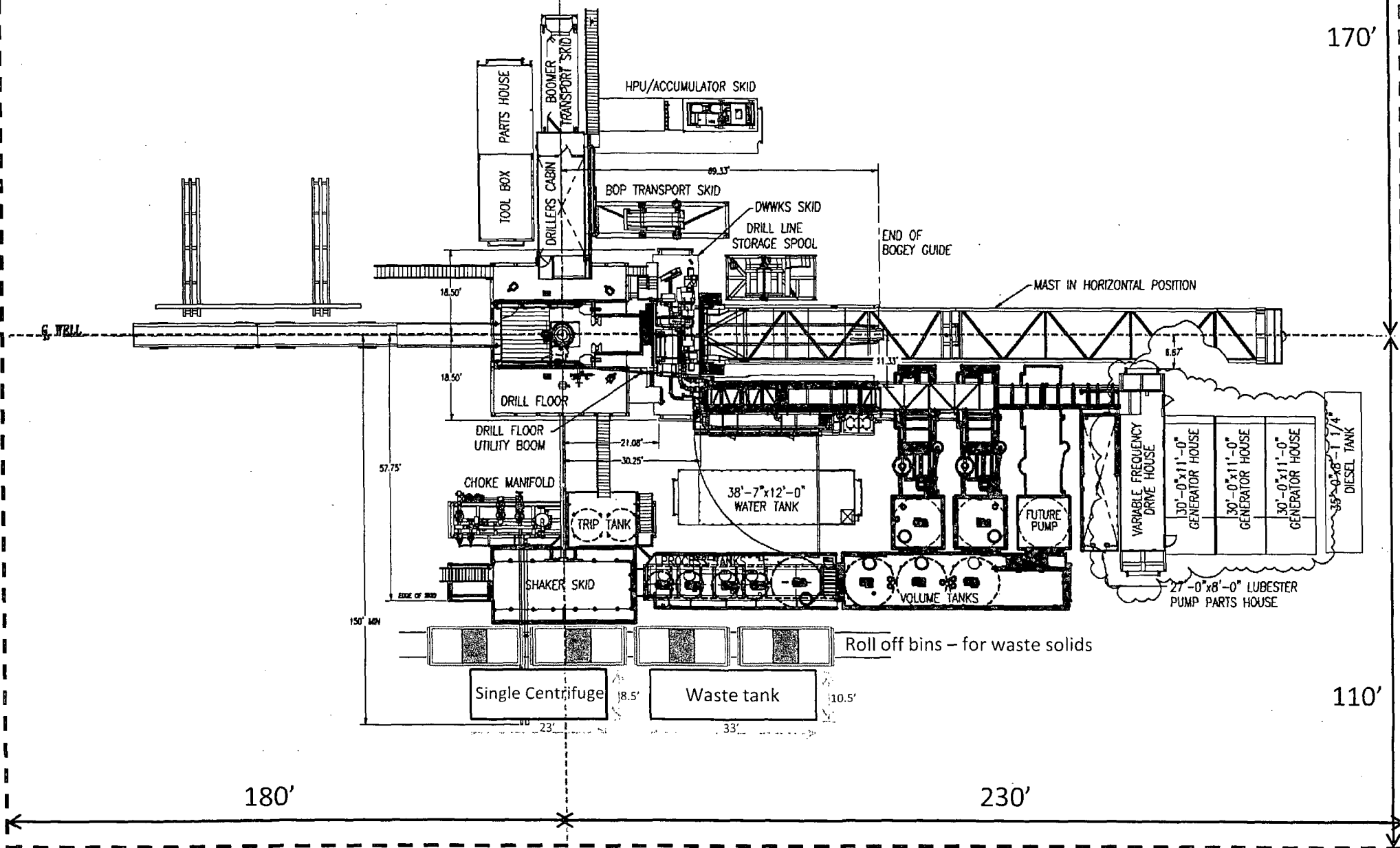
Print Name

Date

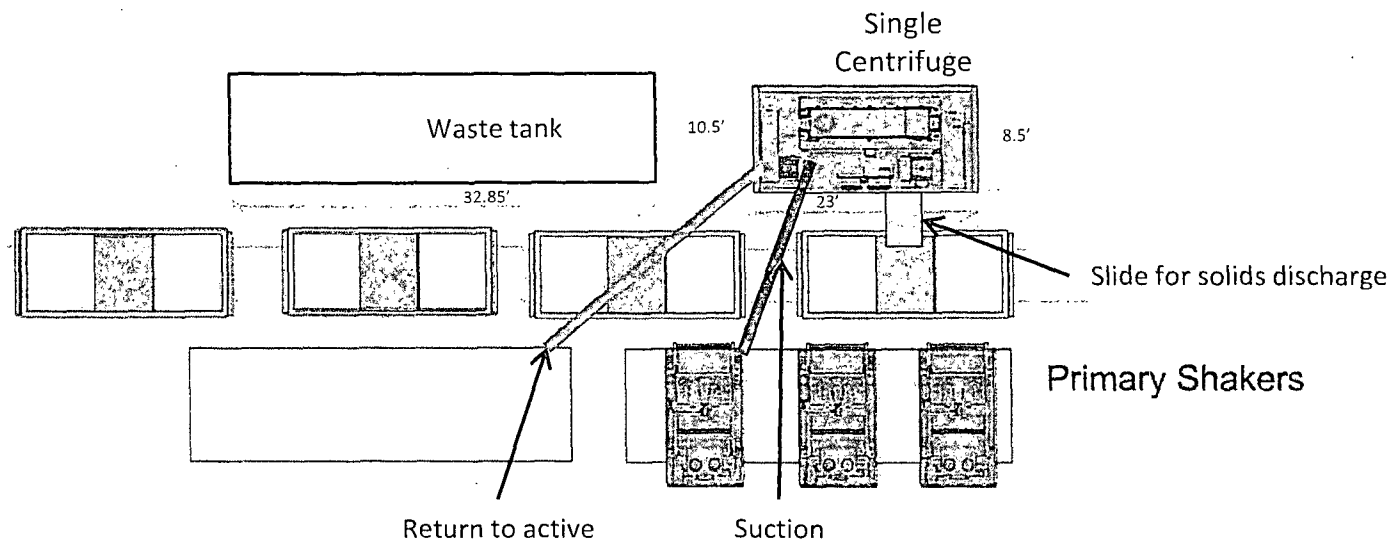
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# Oxy Single Centrifuge Closed Loop System – New Mexico Flex III.

May 28, 2013



Oxy



Oxy Single Centrifuge  
Closed Loop System – New  
Mexico Flex III

May 28, 2013

CU-2

Oxy U.S.A Inc.

New Mexico Staking Form

Date Staked: 9-5-13

Lease/Well Name: FoxGlove 29 Fed #5H

Legal Description: 340 FNL 1980 FwL Sec 29 T23S R33E

Latitude: 32.165532"

Longitude: 103.354739"

Move Information: 0

County: Lea

Surface Owner/Tenant: Brunnsted

Nearest Residence: 1.5 miles

Nearest Water Well: \_\_\_\_\_

V-Door: EAST

Road Description: Road into SW corner from SOUTH

New Road: ~~100'~~ 1000'

Upgrade Existing Road: \_\_\_\_\_

Interim Reclamation: 50' NORTH 80' WEST 30' EAST

Source of Caliche: \_\_\_\_\_

Top Soil: NORTH

Onsite Date Performed: 9-12-13

Onsite Attendees: Legion Brunley - BLM Tim Wilson - Oxy  
Terry Asel - Asel Survey

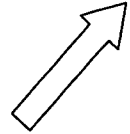
Special Notes: None

Needs Arc

H<sub>2</sub>S-2

- ▲ H<sub>2</sub>S Detectors. At least three detectors will be installed: bell nipple, rig floor and Shakers.
  - Briefing Areas. At least two briefing areas will be placed, 90 deg off.
  - Wind direction indicators. Visible from rig floor and from the mud pits area.
- A gas buster is connected to both the choke manifold and flowline outlets.

## Rig Layout



Exit to road. Caution sign placed here.

