

ATS-16-623

HOBBS OCD

Form 3160-3  
(March 2012)

MAY 09 2016

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

[Handwritten initials]

APPLICATION FOR PERMIT TO DRILL OR REENTER

|   |   |   |
|---|---|---|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER  |   | 7. If Unit or CA Agreement, Name and No.                                |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone        |   | 8. Lease Name and Well No.<br>Whirling Wind 11 Fed Corn 703H            |
| 2. Name of Operator EOG Resources, Inc (7377) /   |   | 9. API Well No.<br>30-025- 43 225                                       |
| 3a. Address P.O. Box 2267 Midland, TX 79702   | 3b. Phone No. (include area code)<br>432-686-3689   | 10. Field and Pool, or Exploratory<br>WC-025 G-09 S253336D; Upper WC    |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)*<br>At surface 842' FSL & 2395' FEL, SWSE (O), Sec 11, 26S, 33E<br>At proposed prod. zone 2410' FSL & 1650' FEL, NWSE (J), Sec 2 |   | 11. Sec., T. R. M. or Blk. and Survey or Area<br>Section 11, T26S, R33E |
| 14. Distance in miles and direction from nearest town or post office*<br>Approximately +/- 23 miles Southwest from Jal, New Mexico  |   | 12. County or Parish<br>Lea   |
| 15. Distance from proposed* location to nearest property or lease line, ft.<br>(Also to nearest drig. unit line, if any) 230', 330' PP  |   | 13. State<br>NM   |
| 16. No. of acres in lease<br>1280   | 17. Spacing Unit dedicated to this well<br>240 ac.  |   |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 660' from 704H   | 19. Proposed Depth<br>20077' MD, 12555' TVD         | 20. BLM/BIA Bond No. on file<br>NM 2308                                 |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>3345' GL   | 22. Approximate date work will start*<br>08/01/2016 | 23. Estimated duration<br>25 days                                       |

**NORTHODOX LOCATION**

24. Attachments

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

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

|   |                                     |                      |
|---|-------------------------------------|----------------------|
| 25. Signature<br><i>Stan Wagner</i>                   | Name (Printed/Typed)<br>Stan Wagner | Date<br>3/2/16       |
| Title<br>Regulatory Specialist                        |                                     |                      |
| Approved by (Signature)<br><i>Is/George MacDonell</i> | Name (Printed/Typed)                | Date<br>MAY - 4 2016 |
| 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)

Carlsbad Controlled Water Basin

*K2  
05/11/16  
PM*

See attached NMOCD  
Conditions of Approval

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

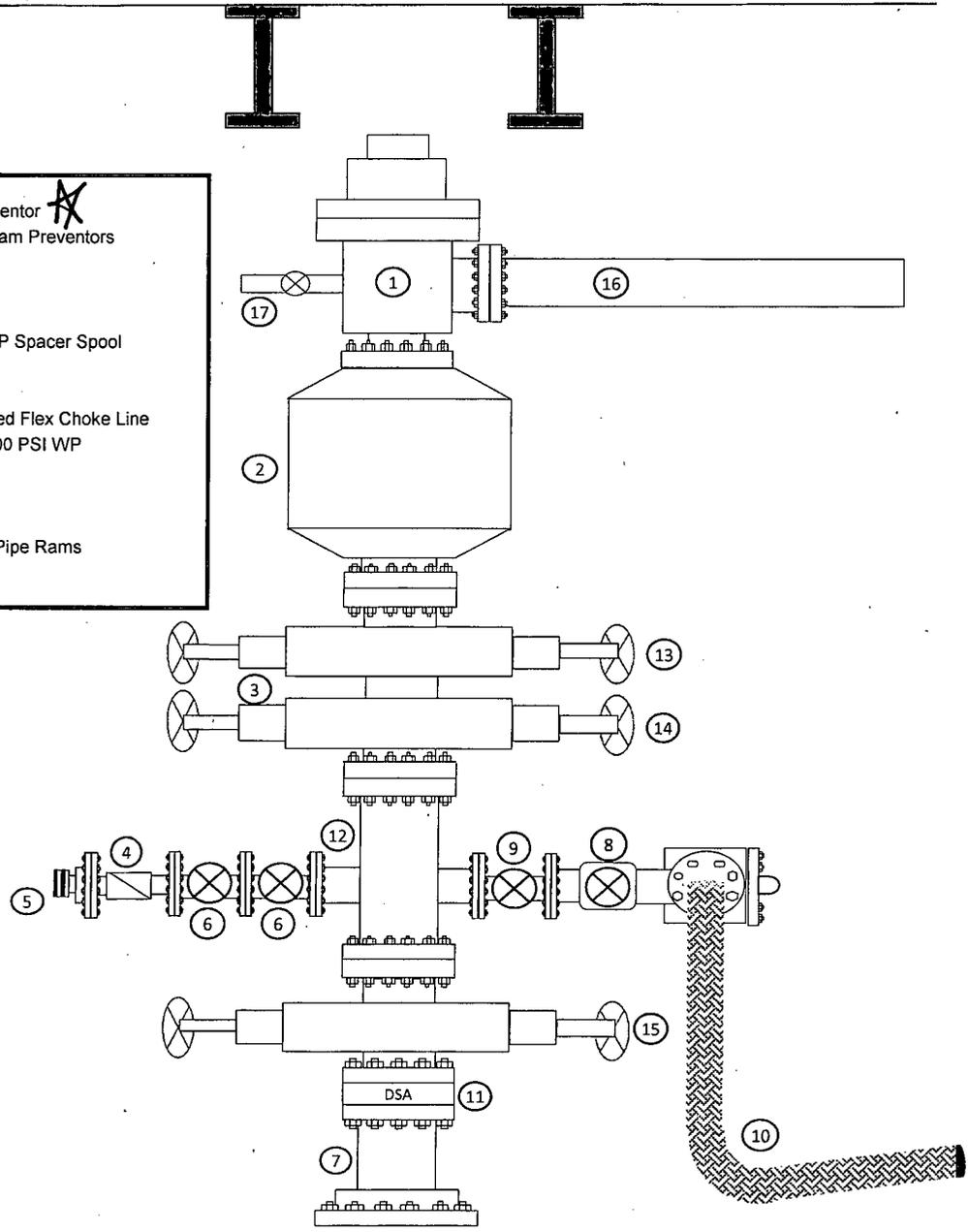
Approval Subject to General Requirements  
& Special Stipulations Attached

MAY 12 2016

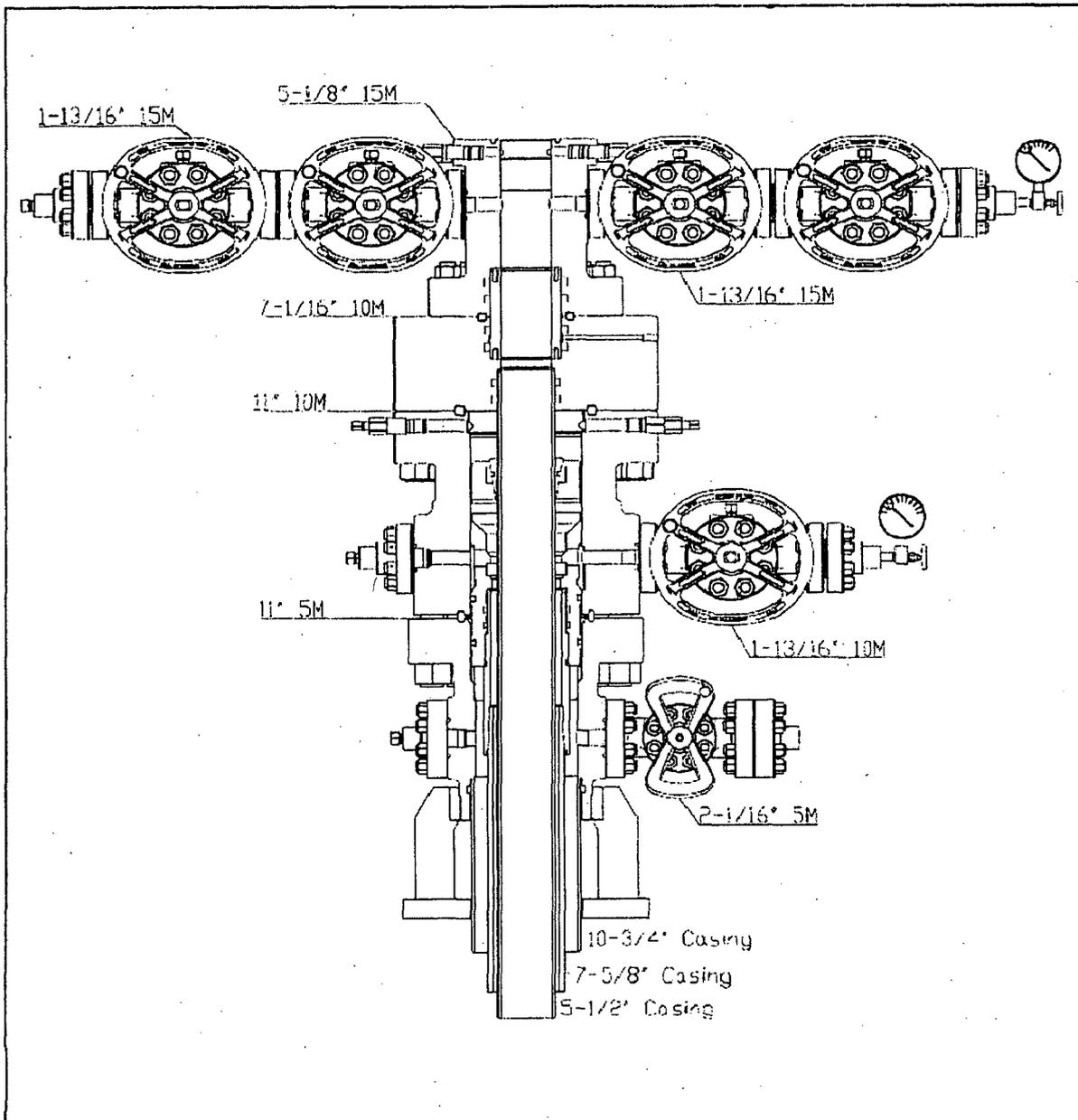
# Exhibit 1 EOG Resources 10M BOPE

Rig Floor

- 1. 13 5/8" Rotating Head
- 2. NOV 13 5/8" 5,000 PSI WP GK Annular Preventor ~~A~~
- 3. 13 5/8" Cameron Type "U" 10,000 PSI WP Ram Preventors
- 4. 2 1/16" - 10,000 PSI WP Check Valve
- 5. 10,000 PSI WP - 1502 Union to kill line
- 6. 2 1/16" - 10,000 PSI WP Manual Valves
- 7. 13 5/8" 3,000 PSI WP x 13 5/8" 5,000 PSI WP Spacer Spool
- 8. 4 1/16" 10,000 PSI WP HCR Valve
- 9. 4 1/16" 10,000 PSI WP Manual Valve
- 10. 6" OD x 3" ID 10,000 PSI WP Steel Armoured Flex Choke Line
- 11. DSA - 13 5/8" 10,000 PSI WP x 13 5/8" 5,000 PSI WP
- 12. Mud Cross - 13 5/8" 10,000 PSI WP
- 13. Blind Rams
- 14. Pipe Rams
- 15. 13 5/8" Cameron Type "U" 10,000 PSI WP Pipe Rams
- 16. Flow Line
- 17. 2" Fill Line



*Per Regulation  
5M system*



|  |     |     |        |  |            |
|--|-----|-----|--------|--|------------|
| <p><b>EDG RESOURCES</b><br/>                 10-3/4" X 7-5/8" X 5-1/2"<br/>                 FBD-100 WELLHEAD SYSTEM<br/>                 QUOTE # - 86366</p> | DWN | RAY | 7/9/15 |  | DRAWING NO |
|  | CHK |     |        |  | WH-15315   |
|  | APP |     |        |  |            |
|  |     | BY  | DATE   |  |            |



## PREMIUM CONNECTIONS PERFORMANCE DATA

Size

NomWt

Grade

### TMK UP ULTRA™ SFII

5.500in

23.0lbs/ft

P-110 HC

Technical Data Sheet

#### Tubular Parameters

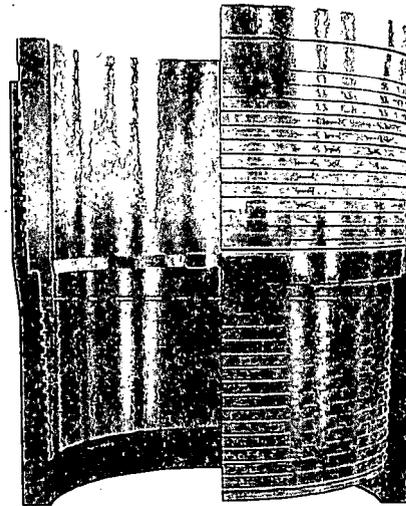
|                     |          |                 |                              |         |     |
|---------------------|----------|-----------------|------------------------------|---------|-----|
| Size                | 5.500    | in              | Minimum Yield                | 110,000 | psi |
| Nominal Weight      | 23.0     | lbs/ft          | Minimum Tensile              | 125,000 | psi |
| Grade               | P-110 HC |                 | Yield Load                   | 729,000 | lbs |
| PE Weight           | 22.54    | lbs/ft          | Tensile Load                 | 828,000 | lbs |
| Wall Thickness      | 0.415    | in              | Min. Internal Yield Pressure | 14,500  | psi |
| Nominal ID          | 4.670    | in              | Collapse Pressure            | 15,110  | psi |
| Drift Diameter      | 4.545    | in              |                              |         |     |
| Nom. Pipe Body Area | 6.630    | in <sup>2</sup> |                              |         |     |

#### Connection Parameters

|                              |         |                 |
|------------------------------|---------|-----------------|
| Connection OD                | 5.726   | in              |
| Connection ID                | 4.626   | in              |
| Make - Up Loss               | 5.653   | in              |
| Critical Section Area        | 5.817   | in <sup>2</sup> |
| Efficiency - Tension         | 85%     | %               |
| Efficiency - Compression     | 73%     | %               |
| Yield Load In Tension        | 621,000 | lbs             |
| Min. Internal Yield Pressure | 14,500  | psi             |
| Collapse Pressure            | 15,110  | psi             |
| Uniaxial Bending             | 78      | °/ 100 ft       |

#### Make-Up Torques

|                        |        |        |
|------------------------|--------|--------|
| Min. Make-Up Torque    | 15,500 | ft-lbs |
| Optimum Make-Up Torque | 16,300 | ft-lbs |
| Max. Make-Up Torque    | 18,700 | ft-lbs |
| Yield Torque           | 24,800 | ft-lbs |



Printed on : November-24-2015

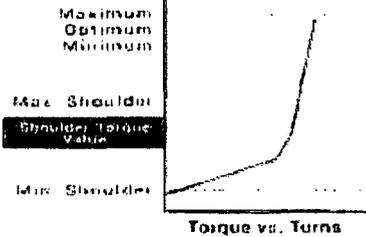
**NOTE:**  
The content of this Technical Data Sheet is for general information only and does not guarantee performance or imply fitness for a particular purpose, which only a competent drilling professional can determine considering the specific installation and operation parameters. Information that is printed or downloaded is no longer controlled by TMK IPSCO and might not be the latest information. Anyone using the information herein does so at their own risk. To verify that you have the latest TMK IPSCO technical information, please contact TMK IPSCO Technical Sales toll-free at 1-888-258-2000.

**JFEBEAR** 



Jun. 23, 2016

SIZE: 5.000 in (127 mm)  
 WEIGHT: 23.20 lb/ft (34.53 kg/m)  
 GRADE: P110  
 COUP: Standard  
 FF: API Spec (FF#1.0)



JFE has performed and continues to perform connection and qualification testing according to the most rigorous industry and customer standards. Performance ratings are uniaxial ratings based on specified pipe minimum performance properties. Please contact the JFE-TC office for the latest information.

| MATERIAL             | Imperial    | Metric  |
|----------------------|-------------|---------|
| Min Yield Strength   | 110,000 psi | 750 MPa |
| Max Yield Strength   | 140,000 psi | 965 MPa |
| Min Tensile Strength | 125,000 psi | 862 MPa |

| COUPLING            | Imperial  | Metric    |
|---------------------|-----------|-----------|
| Coupling OD         | 5.760 in  | 146.05 mm |
| Coupling ID         | 4.143 in  | 105.23 mm |
| Tensile Efficiency  | 105%      | 105%      |
| Coupling Length     | 10.389 in | 265.27 mm |
| Make-up Loss Length | 4.03 in   | 117.60 mm |
| Bearing Face Load   | 443 kip   | 9.97 kN   |

| PIPE                     | Imperial              | Metric                |
|--------------------------|-----------------------|-----------------------|
| Pipe Body Wall           | 0.478 in              | 12.14 mm              |
| Pipe ID                  | 4.044 in              | 102.72 mm             |
| Orbit Diameter           | 3.010 in              | 90.54 mm              |
| Pipe Cross Section       | 6.701 in <sup>2</sup> | 4.381 mm <sup>2</sup> |
| Collapse Pressure        | 10,020 psi            | 151.14 MPa            |
| Internal Yield Pressure  | 18,400 psi            | 126.86 MPa            |
| Pipe Body Yield Strength | 747 kip               | 3.325 kN              |

| CONNECTION PERFORMANCE   | Imperial   | Metric     |
|--------------------------|------------|------------|
| Collapse Pressure        | 10,020 psi | 131.14 MPa |
| Internal Yield Pressure  | 10,400 psi | 126.86 MPa |
| Joint Strength           | 747 kip    | 3.325 kN   |
| Joint Tensile Efficiency | 100%       | 100%       |
| Compression Rating       | 508 kip    | 2.250 kN   |

| FIELD MAKE-UP TORQUE | Imperial     | Metric    |
|----------------------|--------------|-----------|
| Min Torque           | 13,500 ft-lb | 30,000 Nm |
| Opt Torque           | 15,000 ft-lb | 22,322 Nm |
| Max Torque           | 16,500 ft-lb | 24,555 Nm |

**Manufacturer: Midwest Hose & Specialty**

**Serial Number: SN#90067**

**Length: 35'**

**Size: OD = 8" ID = 4"**

**Ends: Flanges Size: 4-1/16"**

**WP Rating: 10,000 psi    Anchors required by manufacturer: No**

**M I D W E S T**  
**H O S E   A N D   S P E C I A L T Y   I N C .**

| <b>INTERNAL HYDROSTATIC TEST REPORT</b>   |  |                                   |
|---|--|-----------------------------------|
| <b>Customer:</b><br>CACTUS  | <b>P.O. Number:</b><br>RIG #123<br>Asset # M10761  |                                   |
| <b>HOSE SPECIFICATIONS</b>  |  |                                   |
| <b>Type:</b> CHOKE LINE   | <b>Length:</b> 35'                                 |                                   |
| <b>I.D.</b> 4"    INCHES  | <b>O.D.</b> 8"    INCHES                           |                                   |
| <b>WORKING PRESSURE</b><br>10,000    PSI  | <b>TEST PRESSURE</b><br>15,000    PSI              | <b>BURST PRESSURE</b><br>PSI      |
| <b>COUPLINGS</b>  |  |                                   |
| <b>Type of End Fitting</b><br>4 1/16 10K FLANGE   |  |                                   |
| <b>Type of Coupling:</b><br>SWEDGED   | <b>MANUFACTURED BY</b><br>MIDWEST HOSE & SPECIALTY |                                   |
| <b>PROCEDURE</b>  |  |                                   |
| <i>Hose assembly pressure tested with water at ambient temperature.</i>   |  |                                   |
| <b>TIME HELD AT TEST PRESSURE</b><br>1    MIN.  | <b>ACTUAL BURST PRESSURE:</b><br>0    PSI          |                                   |
| <b>COMMENTS:</b><br>SN#90067 M10761<br>Hose is covered with stainless steel armour cover and wrapped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes |  |                                   |
| <b>Date:</b><br>6/6/2011  | <b>Tested By:</b><br>BOBBY FINK                    | <b>Approved:</b><br>MENDI JACKSON |



Midwest Hose & Specialty, Inc.

# Internal Hydrostatic Test Graph

Customer: CACTUS      SALES ORDER# 90067

### Hose Specifications

Hose Type: C & K  
I.D.: 4"  
Length: 35'  
O.D.: 8"

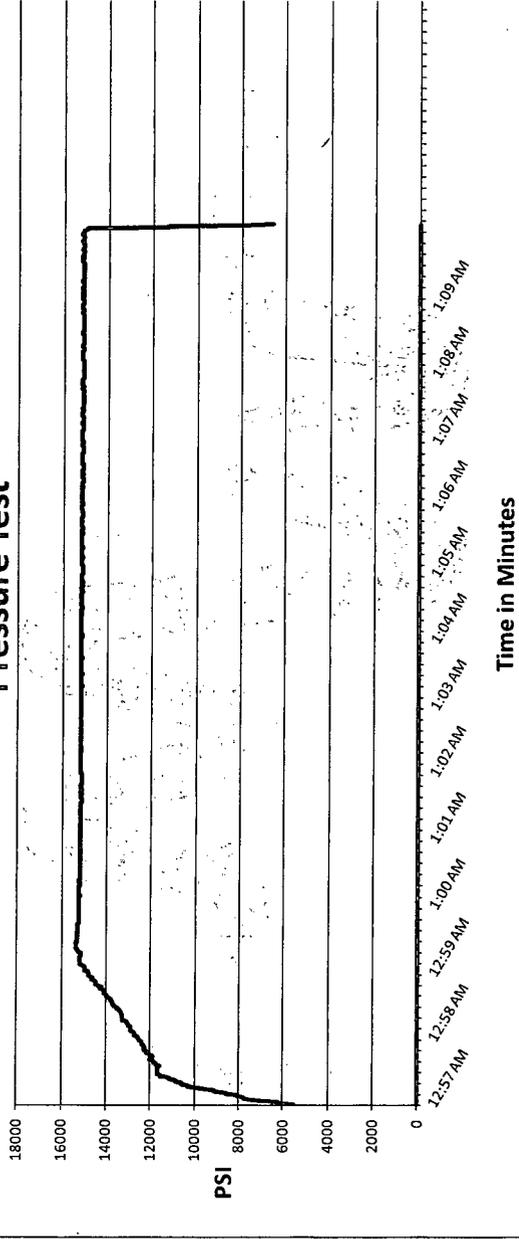
### Verification

Type of Fitting: 4 1/16 10K  
Die Size: 6.62"  
Coupling Method: Swage  
Final O.D.: 6.68"  
Hose Serial #: 90067  
Hose Assembly Serial #: 90067

Working Pressure: 10000 PSI  
Standard Safety Multiplier Applies

Burst Pressure

## Pressure Test



Test Pressure: 15000 PSI      Time Held at Test Pressure: 11 1/4 Minutes      Actual Burst Pressure: 15439 PSI      Peak Pressure: 15439 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Bobby Fink

Approved By: Mendi Jackson

Mendi Jackson

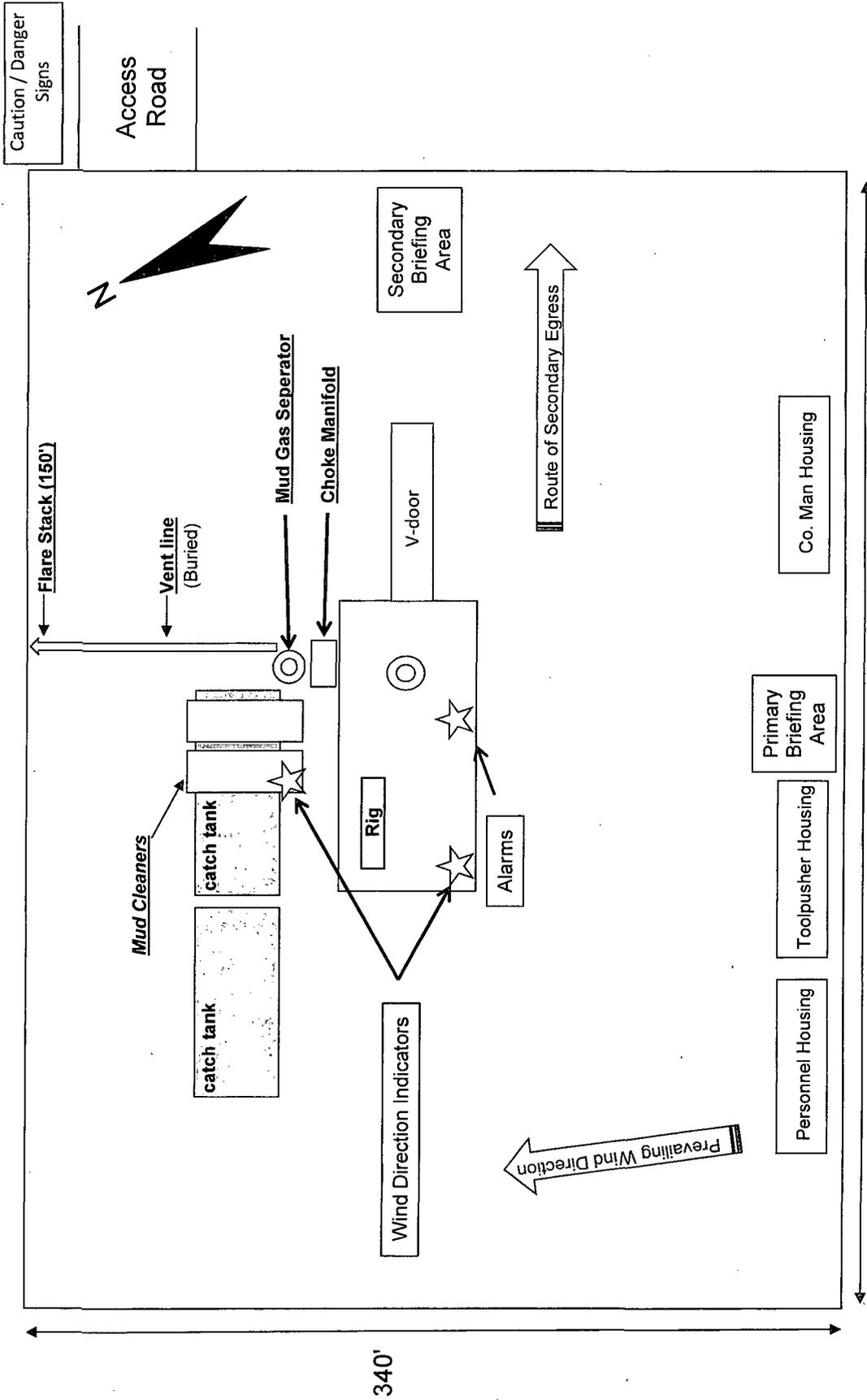


Exhibit 4

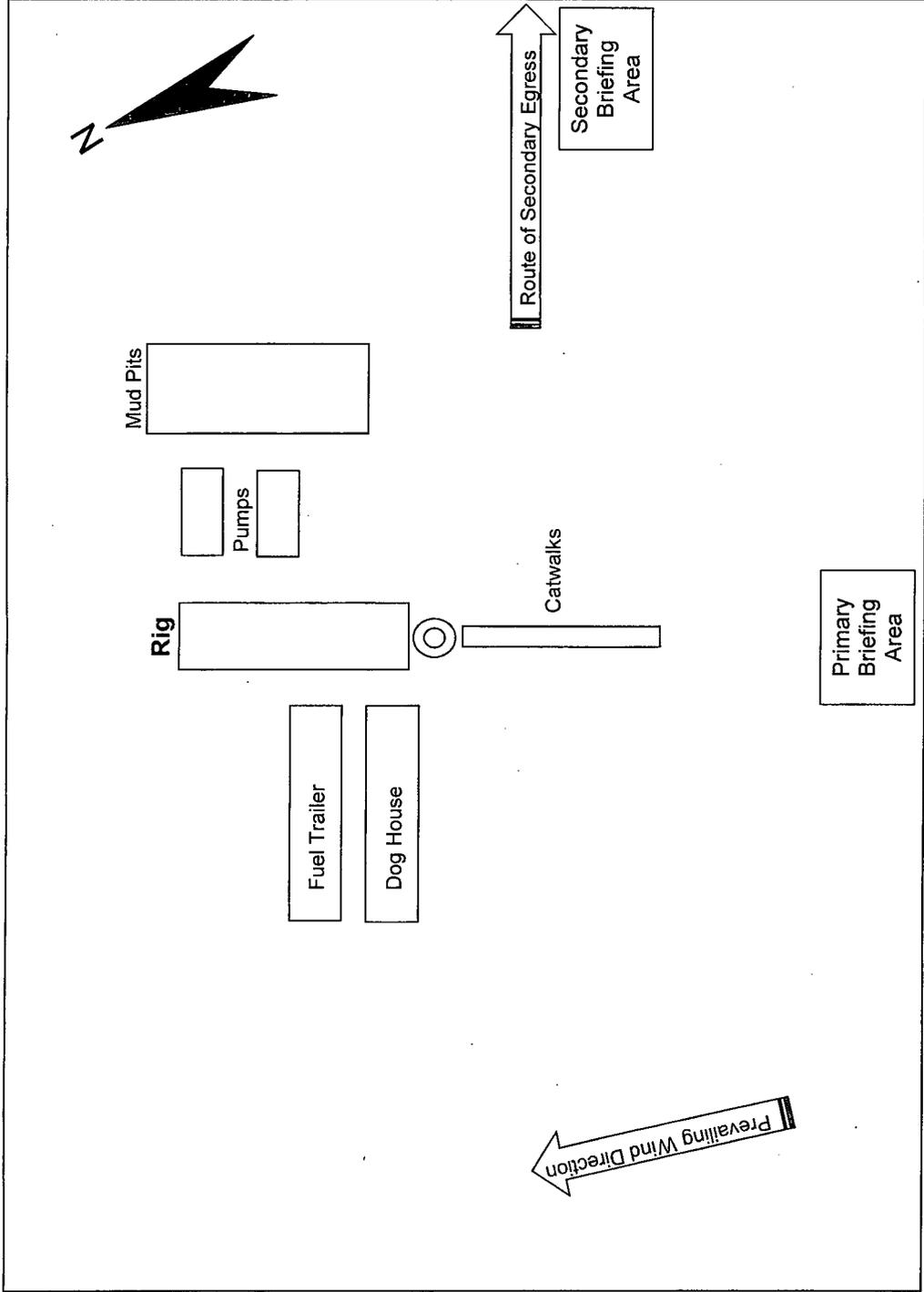
EOG Resources  
Whirling Wind 11 Fed Com #703H

450'

Well Site Diagram

Caution / Danger Signs

Access Road



340'

450'

Exhibit 4 (A) Option

EOG Resources

Whirling Wind 11 Fed Com #703H

Well Site Diagram