

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

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

HOBBS OCD

JAN 03 2018

RECEIVED

|   |   |   |
|---|---|---|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER  |   | 5. Lease Serial No.<br>NMLC065607   |
| 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<br>MATADOR PRODUCTION COMPANY (228937)  |   | 7. If Unit or CA Agreement, Name and No.                                      |
| 3a. Address<br>5400 LBJ Freeway, Suite 1500 Dallas TX 7524  | 3b. Phone No. (include area code)<br>(972)371-5200  | 8. Lease Name and Well No.<br>VERNA RAE FEDERAL COM 134H (320545)             |
| 3a. Address<br>5400 LBJ Freeway, Suite 1500 Dallas TX 7524  |   | 9. API Well No.<br>30-025-44342   |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)*<br>At surface LOT 2 / 260 FNL / 1725 FEL / LAT 32.6086813 / LONG -103.5965036<br>At proposed prod. zone SESE / 240 FSL / 660 FEL / LAT 32.5955659 / LONG -103.5931409 |   | 10. Field and Pool, or Exploratory<br>TEAS BONE SPRINGS EAST / TEAS B (96637) |
| 14. Distance in miles and direction from nearest town or post office*<br>19 miles   |   | 11. Sec., T. R. M. or Blk. and Survey or Area<br>SEC 6 / T20S / R34E / NMP    |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)<br>260 feet   | 16. No. of acres in lease<br>722.39                 | 12. County or Parish<br>LEA   |
| 18. Distance from proposed location* to nearest well, drilling, completed, 42 feet applied for, on this lease, ft.  | 19. Proposed Depth<br>10785 feet / 15618 feet       | 13. State<br>NM   |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>3620 feet  | 22. Approximate date work will start*<br>09/01/2017 | 17. Spacing Unit dedicated to this well<br>160                                |
|   |   | 20. BLM/BIA Bond No. on file<br>FED: NMB001079                                |
|   |   | 23. Estimated duration<br>90 days   |

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>(Electronic Submission)           | Name (Printed/Typed)<br>Brian Wood / Ph: (505)466-8120    | Date<br>06/16/2017 |
| Title<br>President                                 |   |                    |
| Approved by (Signature)<br>(Electronic Submission) | Name (Printed/Typed)<br>Bobby Ballard / Ph: (575)234-2235 | Date<br>12/21/2017 |
| Title<br>Natural Resource Specialist               |   |                    |
| Office<br>CARLSBAD                                 |   |                    |

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.

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)

**APPROVED WITH CONDITIONS**  
Approval Date: 12/21/2017

KZ  
01/09/18

## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

## NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

## **Additional Operator Remarks**

### **Location of Well**

1. SHL: LOT 2 / 260 FNL / 1725 FEL / TWSP: 20S / RANGE: 34E / SECTION: 6 / LAT: 32.6086813 / LONG: -103.5965036 ( TVD: 0 feet, MD: 0 feet )  
PPP: SENE / 2640 FNL / 660 FEL / TWSP: 20S / RANGE: 34E / SECTION: 6 / LAT: 32.60215 / LONG: -103.59308 ( TVD: 10785 feet, MD: 13222 feet )  
PPP: LOT 2 / 260 FNL / 1725 FEL / TWSP: 20S / RANGE: 34E / SECTION: 6 / LAT: 32.6086813 / LONG: -103.5965036 ( TVD: 0 feet, MD: 0 feet )  
BHL: SESE / 240 FSL / 660 FEL / TWSP: 20S / RANGE: 34E / SECTION: 6 / LAT: 32.5955659 / LONG: -103.5931409 ( TVD: 10785 feet, MD: 15618 feet )

## **BLM Point of Contact**

Name: Sipra Dahal

Title: Legal Instruments Examiner

Phone: 5752345983

Email: sdahal@blm.gov

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**Approval Date: 12/21/2017**

(Form 3160-3, page 3)

## **Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Application Data Report

12/21/2017

APD ID: 10400015169

Submission Date: 06/16/2017

Highlighted data  
reflects the most  
recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 134H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - General

APD ID: 10400015169

Tie to previous NOS?

Submission Date: 06/16/2017

BLM Office: CARLSBAD

User: Brian Wood

Title: President

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMLC065607

Lease Acres: 722.39

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? YES

APD Operator: MATADOR PRODUCTION COMPANY

Operator letter of designation:

### Operator Info

Operator Organization Name: MATADOR PRODUCTION COMPANY

Operator Address: 5400 LBJ Freeway, Suite 1500

Zip: 75240

Operator PO Box:

Operator City: Dallas

State: TX

Operator Phone: (972)371-5200

Operator Internet Address: amonroe@matadorresources.com

### Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: VERNA RAE FEDERAL COM

Well Number: 134H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: TEAS BONE  
SPRINGS EAST

Pool Name: TEAS BONE  
SPRING EAST

Is the proposed well in an area containing other mineral resources? POTASH

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERA RAE FEDERAL COM

**Well Number:** 134H

**Describe other minerals:**

**Is the proposed well in a Helium production area?** NO

**Use Existing Well Pad?** NO

**New surface disturbance?**

**Type of Well Pad:** MULTIPLE WELL

**Multiple Well Pad Name:**

**Number:** SLOT 3

**Well Class:** HORIZONTAL

VERA RAE

**Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** OIL WELL

**Describe Well Type:**

**Well sub-Type:** INFILL

**Describe sub-type:**

**Distance to town:** 19 Miles

**Distance to nearest well:** 42 FT

**Distance to lease line:** 260 FT

**Reservoir well spacing assigned acres Measurement:** 160 Acres

**Well plat:** VernaRae\_134H\_Plat\_20171005100432.PDF

**Well work start Date:** 09/01/2017

**Duration:** 90 DAYS

### Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83

**Vertical Datum:** NAVD88

**Survey number:** 18329

|                  | NS-Foot | NS Indicator | EW-Foot  | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude       | Longitude            | County | State             | Meridian          | Lease Type | Lease Number   | Elevation     | MD        | TVD       |
|------------------|---------|--------------|----------|--------------|------|-------|---------|-------------------|----------------|----------------------|--------|-------------------|-------------------|------------|----------------|---------------|-----------|-----------|
| SHL<br>Leg<br>#1 | 260     | FNL          | 172<br>5 | FEL          | 20S  | 34E   | 6       | Lot<br>2          | 32.60868<br>13 | -<br>103.5965<br>036 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMLC0<br>65607 | 362<br>0      | 0         | 0         |
| KOP<br>Leg<br>#1 | 260     | FNL          | 172<br>5 | FEL          | 20S  | 34E   | 6       | Lot<br>2          | 32.60868<br>13 | -<br>103.5965<br>036 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMLC0<br>65607 | -<br>662<br>5 | 103<br>50 | 102<br>45 |
| PPP<br>Leg<br>#1 | 260     | FNL          | 172<br>5 | FEL          | 20S  | 34E   | 6       | Lot<br>2          | 32.60868<br>13 | -<br>103.5965<br>036 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMLC0<br>65607 | 362<br>0      | 0         | 0         |

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERA RAE FEDERAL COM

**Well Number:** 134H

|                   | NS-Foot  | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude       | Longitude            | County | State             | Meridian          | Lease Type | Lease Number  | Elevation     | MD        | TVD       |
|-------------------|----------|--------------|---------|--------------|------|-------|---------|-------------------|----------------|----------------------|--------|-------------------|-------------------|------------|---------------|---------------|-----------|-----------|
| PPP<br>Leg<br>#1  | 264<br>0 | FNL          | 660     | FEL          | 20S  | 34E   | 6       | Aliquot<br>SENE   | 32.60215       | -<br>103.5930<br>8   | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>40406 | -<br>716<br>5 | 132<br>22 | 107<br>85 |
| EXIT<br>Leg<br>#1 | 240      | FSL          | 660     | FEL          | 20S  | 34E   | 6       | Aliquot<br>SESE   | 32.59556<br>59 | -<br>103.5931<br>409 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>40406 | -<br>716<br>5 | 156<br>18 | 107<br>85 |
| BHL<br>Leg<br>#1  | 240      | FSL          | 660     | FEL          | 20S  | 34E   | 6       | Aliquot<br>SESE   | 32.59556<br>59 | -<br>103.5931<br>409 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>40406 | -<br>716<br>5 | 156<br>18 | 107<br>85 |



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Drilling Plan Data Report

12/21/2017

APD ID: 10400015169

Submission Date: 06/16/2017

Highlighted data  
reflects the most  
recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 134H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - Geologic Formations

| Formation ID | Formation Name    | Elevation | True Vertical Depth | Measured Depth | Lithologies        | Mineral Resources   | Producing Formation |
|--------------|-------------------|-----------|---------------------|----------------|--------------------|---------------------|---------------------|
| 1            | ---               | 3620      | 0                   | 0              | OTHER : Quaternary | USEABLE WATER       | No                  |
| 2            | RUSTLER ANHYDRITE | 2149      | 1475                | 1479           | ANHYDRITE          | OTHER : Anhydrite   | No                  |
| 3            | TOP SALT          | 2019      | 1605                | 1610           | SALT               | OTHER : Salt        | No                  |
| 4            | BASE OF SALT      | 500       | 3120                | 3158           | SALT               | OTHER : Salt        | No                  |
| 5            | TANSILL           | 435       | 3185                | 3224           | SANDSTONE          | OTHER : Sandstone   | No                  |
| 6            | YATES             | 280       | 3340                | 3383           | GYPSUM             | OTHER : Gypsum      | No                  |
| 7            | SEVEN RIVERS      | -130      | 3750                | 3802           | DOLOMITE           | NONE                | No                  |
| 8            | QUEEN             | -950      | 4570                | 4610           | SANDSTONE          | OTHER : Sandstone   | No                  |
| 9            | CAPITAN REEF      | -1130     | 4750                | 4824           | OTHER : Carbonate  | USEABLE WATER       | No                  |
| 10           | DELAWARE SAND     | -1800     | 5420                | 5510           | SANDSTONE          | NATURAL GAS,CO2,OIL | No                  |
| 11           | BRUSHY CANYON     | -2535     | 6155                | 6258           | SANDSTONE          | NATURAL GAS,CO2,OIL | No                  |
| 12           | BONE SPRING LIME  | -4660     | 8280                | 8395           |                    | NATURAL GAS,CO2,OIL | No                  |
| 13           | BONE SPRING 1ST   | -5385     | 9005                | 9110           | OTHER : Carbonate  | NATURAL GAS,CO2,OIL | No                  |
| 14           | BONE SPRING 1ST   | -5770     | 9390                | 9495           | SANDSTONE          | NATURAL GAS,CO2,OIL | No                  |
| 15           | BONE SPRING 2ND   | -6310     | 9930                | 10035          | SANDSTONE          | NATURAL GAS,CO2,OIL | No                  |
| 16           | BONE SPRING 3RD   | -6985     | 10605               | 10750          | SANDSTONE          | NATURAL GAS,CO2,OIL | Yes                 |

### Section 2 - Blowout Prevention



**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERNA RAE FEDERAL COM

**Well Number:** 134H

**Pressure Rating (PSI):** 5M

**Rating Depth:** 10000

**Equipment:** An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed.

**Requesting Variance?** YES

**Variance request:** Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. Manufacturer does not require the hose to be anchored. If the specific hose is not available, then one of equal or higher rating will be used. Matador is requesting a variance to use a speed head. Speed head diameter range is 13.375" x 9.625" x 5.5" x 2.875". Matador requested a variance per discussion with Chris Walls to use attached Choke diagram.

**Testing Procedure:** A third party company will test the BOPs. Surface casing will be pressure tested to 250 psi low and 2000 psi high. Intermediate casing pressure tests will be made to 250 psi low and 3000 psi high. Annular preventer will be tested to 250 psi low and 2500 psi high on the surface casing and tested to 250 psi low and 2500 psi high on the intermediate casing. In the case of running a speed head with landing mandrel for 9.625" casing, initial surface casing test pressures will be 250 psi low and 3000 psi high, with wellhead seals tested to 5000 psi once the 9.625" casing has been landed and cemented.

**Choke Diagram Attachment:**

VernaRae\_134H\_Choke\_20171023102718.pdf

**BOP Diagram Attachment:**

VernaRae\_134H\_BOP\_06-15-2017.pdf

### Section 3 - Casing

| Casing ID | String Type  | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type    | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|--------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-------|--------|---------------|-------------|----------|---------------|----------|--------------|---------|
| 1         | SURFACE      | 20        | 13.375   | NEW       | API      | N              | 0          | 1600          | 0           | 1600           | -7165       | -8765          | 1600                        | J-55  | 54.5   | OTHER - BTC   | 1.125       | 1.125    | DRY           | 1.8      | DRY          | 1.8     |
| 2         | INTERMEDIATE | 12.25     | 9.625    | NEW       | API      | N              | 0          | 5400          | 0           | 5392           | -7165       | -12557         | 5400                        | J-55  | 40     | OTHER - BTC   | 1.125       | 1.125    | DRY           | 1.8      | DRY          | 1.8     |
| 3         | PRODUCTION   | 8.75      | 5.5      | NEW       | API      | N              | 0          | 14982         | 0           | 10335          | -7165       | -17500         | 14982                       | P-110 | 20     | OTHER - DWC/C | 1.125       | 1.125    | DRY           | 1.8      | DRY          | 1.8     |

**Casing Attachments**

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERA RAE FEDERAL COM

**Well Number:** 134H

#### Casing Attachments

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**Casing ID:** 1      **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Casing\_Design\_Assumptions\_Surface\_06-15-2017.docx

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**Casing ID:** 2      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Casing\_Design\_Assumptions\_Intermediate\_06-15-2017.docx

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**Casing ID:** 3      **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Casing\_Design\_Assumptions\_Production\_06-15-2017.docx

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#### Section 4 - Cement

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERNA RAE FEDERAL COM

**Well Number:** 134H

| String Type  | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives                                |
|--------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--|
| SURFACE      | Lead      |                  | 0      | 1600      | 1764         | 1.75  | 13.5    | 3087  | 100     | Class C     | 3% NaCl + LCM                            |
| SURFACE      | Tail      |                  | 0      | 1600      | 559          | 1.38  | 14.8    | 771   | 100     | Class C     | 5% NaCl + LCM                            |
| INTERMEDIATE | Lead      |                  | 0      | 5400      | 1262         | 1.81  | 13.5    | 2284  | 100     | Class C     | Bentonite + 1% CaCl2 + 8% NaCl + LCM     |
| INTERMEDIATE | Tail      |                  | 0      | 5400      | 490          | 1.38  | 14.8    | 676   | 100     | Class C     | 5% NaCl + LCM                            |
| PRODUCTION   | Lead      |                  | 0      | 1561<br>8 | 730          | 2.25  | 11.5    | 1642  | 35      | TXI         | Fluid Loss + Dispersant + Retarder + LCM |
| PRODUCTION   | Tail      |                  | 0      | 1561<br>8 | 1511         | 1.38  | 13.2    | 2085  | 35      | TXI         | Fluid Loss + Dispersant + Retarder + LCM |

### Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

**Description of the equipment for the circulating system in accordance with Onshore Order #2:**

**Diagram of the equipment for the circulating system in accordance with Onshore Order #2:**

**Describe what will be on location to control well or mitigate other conditions:** All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times.

**Describe the mud monitoring system utilized:** An electronic Pason mud monitoring system complying with Onshore Order 1 will be used. Mud program is subject to change due to hole conditions. A closed loop system will be used.

### Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type                        | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|---------------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 0         | 1600         | SPUD MUD                        | 8.4                  | 8.4                  |                     |                             |    |                |                |                 |                            |
| 5400      | 1561<br>8    | OTHER : Fresh water & cut brine | 9                    | 9                    |                     |                             |    |                |                |                 |                            |
| 1600      | 5400         | SALT SATURATED                  | 10                   | 10                   |                     |                             |    |                |                |                 |                            |

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERNA RAE FEDERAL COM

**Well Number:** 134H

## Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

A 2-person mud logging program will be used from 1600' to TD.

No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

**List of open and cased hole logs run in the well:**

CBL,GR,MWD,OTH

**Other log type(s):**

Casing collar locator

**Coring operation description for the well:**

No core or drill stem test is planned.

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 5385

**Anticipated Surface Pressure:** 5385

**Anticipated Bottom Hole Temperature(F):** 150

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

VernaRae\_134H\_H2S\_Plan\_06-15-2017.pdf

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERNA RAE FEDERAL COM

**Well Number:** 134H

## **Section 8 - Other Information**

**Proposed horizontal/directional/multi-lateral plan submission:**

VernaRae\_134H\_Horizontal\_Drilling\_Plan\_06-15-2017.pdf

**Other proposed operations facets description:**

Deficiency Letter dated 10/20/17 requested:

1) Revised Choke Diagram - see attached;

2) 5.5 in Casing Specs - original Wellhead Casing Spec attachment is correct, so no deficiency

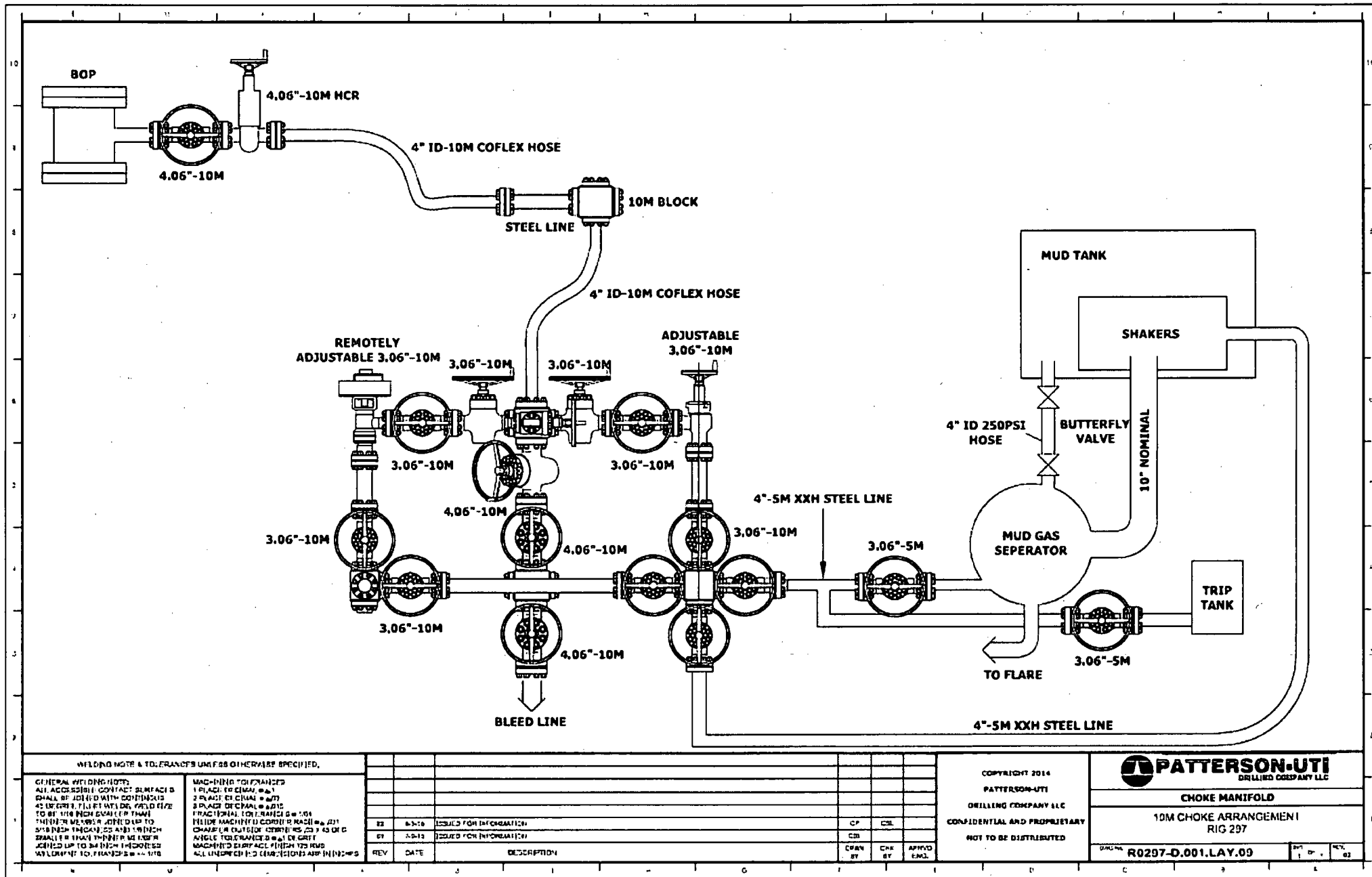
**Other proposed operations facets attachment:**

VernaRae\_134H\_General\_Drill\_Plan\_06-15-2017.pdf

VernaRae\_134H\_Wellhead\_Casing\_Spec\_20171005100354.pdf

**Other Variance attachment:**

VernaRae\_134H\_DV\_Tool\_Variance\_Request\_20171006091042.pdf



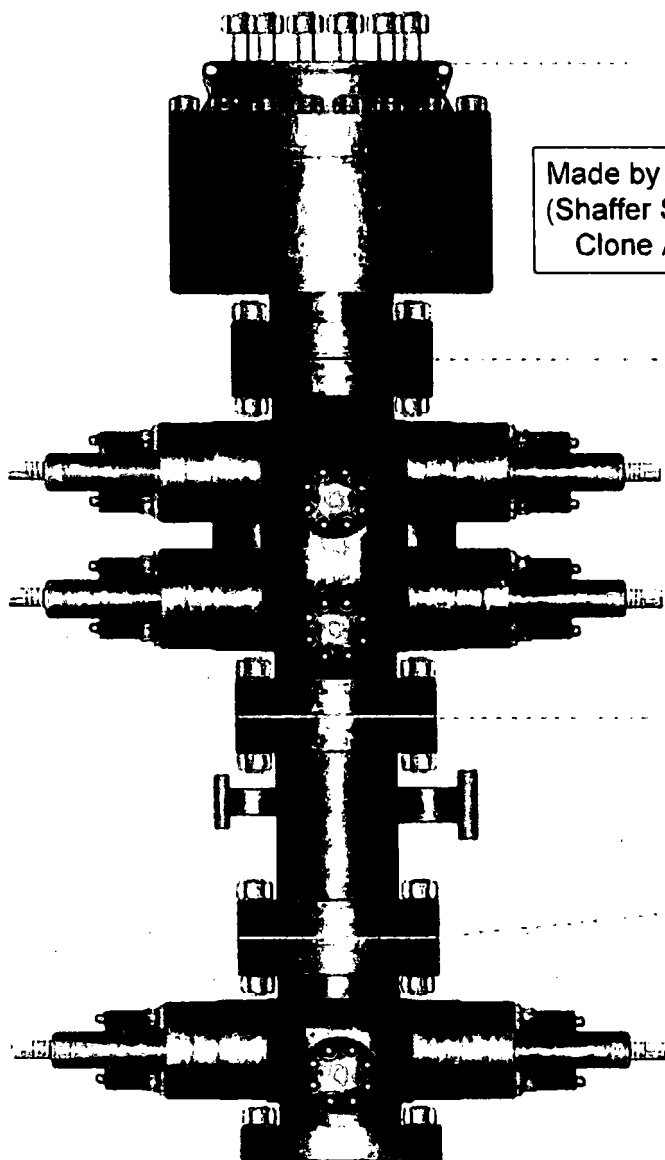


# PATTERSON-UTI

Well Control

**RIG**

**809**



Made by Cameron  
(Shaffer Spherical)  
Clone Annular

PATTERSON-UTI # PS2-628  
STYLE: New Shaffer Spherical  
BORE 13 5/8" PRESSURE 5,000  
HEIGHT: 48 1/2" WEIGHT: 13,800 lbs

PATTERSON-UTI # PC2-128  
STYLE: New Cameron Type U  
BORE 13 5/8" PRESSURE 10,000  
RAMS: TOP 5" Pipe BTM Blinds  
HEIGHT: 66 5/8" WEIGHT: 24,000 lbs

Length 40" Outlets 4" 10M  
DSA 4" 10M x 2" 10M

PATTERSON-UTI # PC2-228  
STYLE: New Cameron Type U  
BORE 13 5/8" PRESSURE 10,000  
RAMS: 5" Pipe  
HEIGHT: 41 5/8" WEIGHT: 13,000 lbs

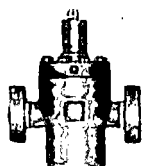
2" Minimum Kill Line

## WING VALVES

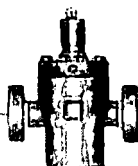
3" Minimum Choke Line



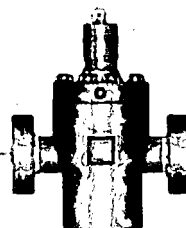
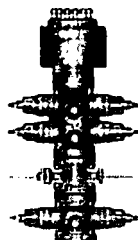
2" Check Valve



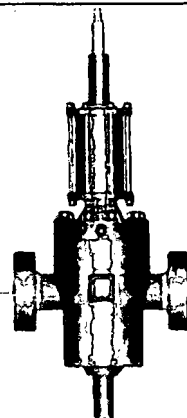
2" Manual Valve



2" Manual Valve



4" Manual Valve



4" Hydraulic Valve



Midwest Hose  
& Specialty, Inc.

## Internal Hydrostatic Test Graph

R809

March 10, 2015

Customer: Patterson B&E

Pick Ticket #: 296283

### Hose Specifications

#### Hose Type

Mud

#### I.D.

2"

#### Working Pressure

10000 PSI

#### Length

50'

#### O.D.

3.47"

#### Burst Pressure

Standard Safety Multiplier Applies

### Verification

#### Type of Fitting

2" 1502

#### Die Size

97MM

#### Hose Serial #

11839

#### Coupling Method

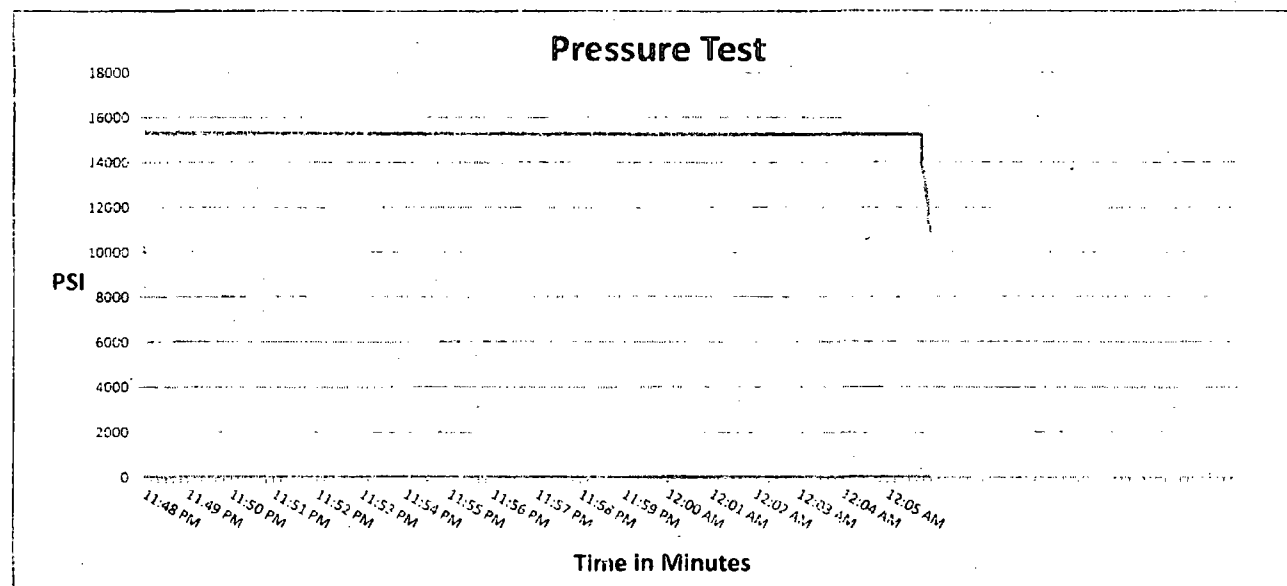
Swage

#### Final O.D.

4.03"

#### Hose Assembly Serial #

296283



Test Pressure  
15000 PSI

Time Held at Test Pressure  
17 3/4 Minutes

Actual Burst Pressure

Peak Pressure  
15361 PSI

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

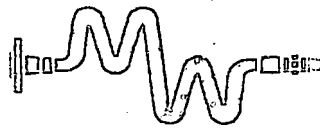
**Tested By:** Richard Davis

**Approved By:** Ryan Adams

*[Signature]*

*[Signature]*





Midwest Hose  
& Specialty, Inc.

### Internal Hydrostatic Test Certificate

| General Information                   |               | Hose Specifications                                      |                    |
|---------------------------------------|---------------|--|--------------------|
| Customer                              | PATTERSON B&E | Hose Assembly Type                                       | Choke & Kill       |
| MWH Sales Representative              | AMY WHITE     | Certification  | API 7K/FSL Level 2 |
| Date Assembled                        | 3/10/2015     | Hose Grade   | MUD                |
| Location Assembled                    | OKC           | Hose Working Pressure                                    | 10000              |
| Sales Order #                         | 245805        | Hose Lot # and Date Code                                 | 11839-11/14        |
| Customer Purchase Order #             | 270590        | Hose I.D. (Inches)                                       | 2"                 |
| Assembly Serial # (Pick Ticket #)     | 296283        | Hose O.D. (Inches)                                       | 3.99"              |
| Hose Assembly Length                  | 50'           | Armor (yes/no)   | YES                |
| <b>Fittings</b>                       |               |  |                    |
| End A                                 |               | End B  |                    |
| Stem (Part and Revision #)            | R2.0X32M1502  | Stem (Part and Revision #)                               | RF2.0 32F1502      |
| Stem (Heat #)                         | 14104546      | Stem (Heat #)  | A144853            |
| Ferrule (Part and Revision #)         | RF2.0 10K     | Ferrule (Part and Revision #)                            | RF2.0 10K          |
| Ferrule (Heat #)                      | 41044         | Ferrule (Heat #)   | 41044              |
| Connection (Flange Hammer Union Part) |               | Connection (Part #)                                      |                    |
| Connection (Heat #)                   |               | Connection (Heat #)                                      |                    |
| Nut (Part #)                          | 2" 1502 H2S   | Nut (Part #)   |                    |
| Nut (Heat #)                          |               | Nut (Heat #)   |                    |
| Dies Used                             | 97MM          | Dies Used  | 97MM               |
| <b>Hydrostatic Test Requirements</b>  |               |  |                    |
| Test Pressure (psi)                   | 15,000        | Hose assembly was tested with ambient water temperature. |                    |
| Test Pressure Hold Time (minutes)     | 17 3/4        |  |                    |
|                                       |               |  |                    |
| Date Tested                           | Tested By     |  | Approved By        |
| 3/10/2015                             |               |  |                    |



Midwest Hose  
& Specialty, Inc.

### Certificate of Conformity

Customer: **PATTERSON B&E**

Customer P.O.# **270590**

Sales Order # **245805**

Date Assembled: **3/10/2015**

### Specifications

Hose Assembly Type: **Choke & Kill**

Assembly Serial # **296283**

Hose Lot # and Date Code **11839-11/14**

Hose Working Pressure (psi) **10000**

Test Pressure (psi) **15000**

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

**Midwest Hose & Specialty, Inc.**

**3312 S I-35 Service Rd**

**Oklahoma City, OK 73129**

Comments:

Approved By

Date

**3/19/2015**



Midwest Hose  
& Specialty, Inc.

## Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 286159

December 24, 2014

### Hose Specifications

#### Hose Type

Ck

I.D.

2"

#### Working Pressure

10000 PSI

#### Length

50'

O.D.

3.55"

#### Burst Pressure

Standard Safety Multiplier Applies

### Verification

#### Type of Fitting

2" 1502

Die Size

97MM

#### Hose Serial #

11784

#### Coupling Method

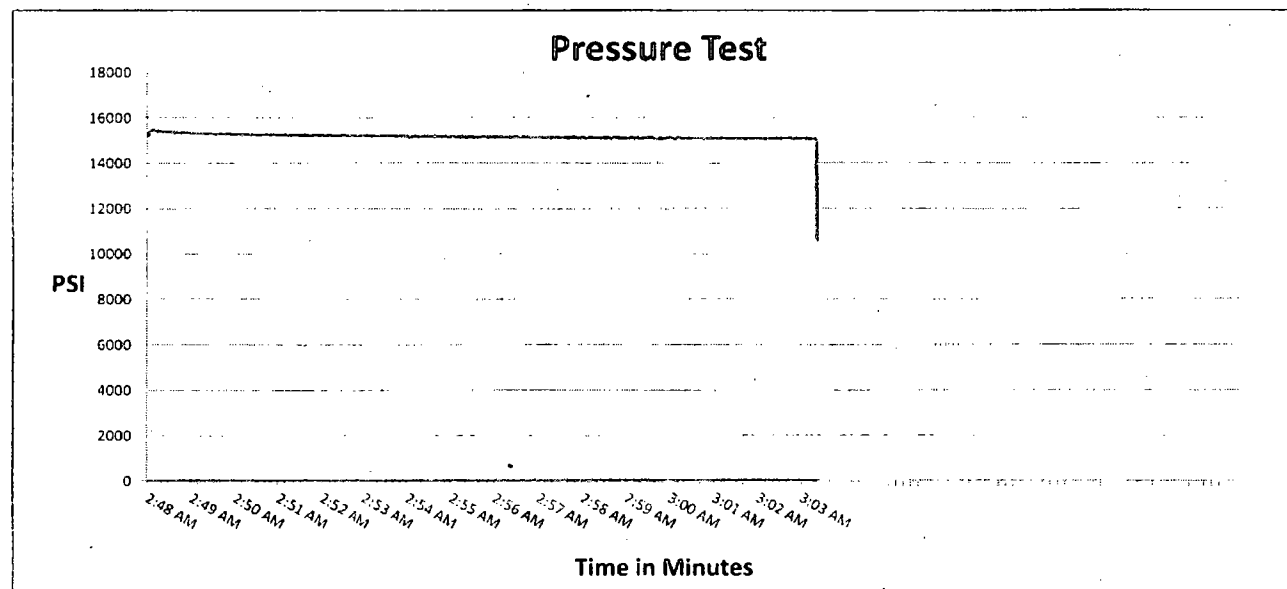
Swage

Final O.D.

3.98"

#### Hose Assembly Serial #

286159



**Test Pressure**  
15000 PSI

**Time Held at Test Pressure**  
15 1/4 Minutes

**Actual Burst Pressure**

**Peak Pressure**  
15410 PSI

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

**Tested By:** Tyler Hill

**Approved By:** Ryan Adams

*Tyler Hill*

*Ryan Adams*



Midwest Hose  
& Specialty, Inc.

### Internal Hydrostatic Test Certificate

| General Information                 |                   | Hose Specifications                                      |                    |
|-------------------------------------|-------------------|--|--------------------|
| Customer                            | PATTERSON B&E     | Hose Assembly Type                                       | Choke & Kill       |
| MWH Sales Representative            | AMY WHITE         | Certification  | API 7K/FSL Level 2 |
| Date Assembled                      | 12/23/2014        | Hose Grade   | MUD                |
| Location Assembled                  | OKC               | Hose Working Pressure                                    | 10000              |
| Sales Order #                       | 237566            | Hose Lot # and Date Code                                 | 11784-10/14        |
| Customer Purchase Order #           | 261581            | Hose I.D. (Inches)                                       | 2"                 |
| Assembly Serial # (Pick Ticket #)   | 286159            | Hose O.D. (Inches)                                       | 4.00"              |
| Hose Assembly Length                | 50'               | Armor (yes/no)   | YES                |
| Fittings                            |                   |  |                    |
| End A                               |                   | End B  |                    |
| Stem (Part and Revision #)          | R2.0X32M1502      | Stem (Part and Revision #)                               | R2.0X32M1502       |
| Stem (Heat #)                       | M14104546         | Stem (Heat #)  | M14101226          |
| Ferrule (Part and Revision #)       | RF2.0 10K         | Ferrule (Part and Revision #)                            | RF2.0 10K          |
| Ferrule (Heat #)                    | 41044             | Ferrule (Heat #)   | 41044              |
| Connection Flange Hammer Union Part | 2"1502            | Connection (Part #)                                      |                    |
| Connection (Heat #)                 | 2866              | Connection (Heat #)                                      |                    |
| Nut (Part #)                        |                   | Nut (Part #)   |                    |
| Nut (Heat #)                        |                   | Nut (Heat #)   |                    |
| Dies Used                           | 97MM              | Dies Used  | 97MM               |
| Hydrostatic Test Requirements       |                   |  |                    |
| Test Pressure (psi)                 | 15,000            | Hose assembly was tested with ambient water temperature. |                    |
| Test Pressure Hold Time (minutes)   | 15 1/4            |  |                    |
|                                     |                   |  |                    |
| Date Tested                         | Tested By         | Approved By  |                    |
| 12/24/2014                          | <i>Tyler Hill</i> | <i>Ben Adams</i>   |                    |



Midwest Hose  
& Specialty, Inc.

### Certificate of Conformity

Customer: **PATTERSON B&E**

Customer P.O.# **261581**

Sales Order # **237566**

Date Assembled: **12/23/2014**

### Specifications

Hose Assembly Type: **Choke & Kill**

Assembly Serial # **286159**

Hose Lot # and Date Code **11784-10/14**

Hose Working Pressure (psi) **10000**

Test Pressure (psi) **15000**

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

**Midwest Hose & Specialty, Inc.**

**3312 S I-35 Service Rd**

**Oklahoma City, OK 73129**

Comments:

Approved By

Date

**12/29/2014**



Midwest Hose  
& Specialty, Inc.

### Internal Hydrostatic Test Certificate

| General Information                   |               | Hose Specifications                                      |                    |
|---------------------------------------|---------------|--|--------------------|
| Customer                              | PATTERSON B&E | Hose Assembly Type                                       | Choke & Kill       |
| MWH Sales Representative              | AMY WHITE     | Certification  | API 7K/FSL Level 2 |
| Date Assembled                        | 3/10/2015     | Hose Grade   | MUD                |
| Location Assembled                    | OKC           | Hose Working Pressure                                    | 10000              |
| Sales Order #                         | 245805        | Hose Lot # and Date Code                                 | 11839-11/14        |
| Customer Purchase Order #             | 270590        | Hose I.D. (Inches)                                       | 2"                 |
| Assembly Serial # (Pick Ticket #)     | 296283        | Hose O.D. (Inches)                                       | 3.99"              |
| Hose Assembly Length                  | 50'           | Armor (yes/no)   | YES                |
| Fittings                              |               |  |                    |
| End A                                 |               | End B  |                    |
| Stem (Part and Revision #)            | R2.0X32M1502  | Stem (Part and Revision #)                               | RF2.0 32F1502      |
| Stem (Heat #)                         | 14104546      | Stem (Heat #)  | A144853            |
| Ferrule (Part and Revision #)         | RF2.0 10K     | Ferrule (Part and Revision #)                            | RF2.0 10K          |
| Ferrule (Heat #)                      | 41044         | Ferrule (Heat #)   | 41044              |
| Connection - Flange Hammer Union Part |               | Connection (Part #)                                      |                    |
| Connection (Heat #)                   |               | Connection (Heat #)                                      |                    |
| Nut (Part #)                          | 2" 1502 H2S   | Nut (Part #)   |                    |
| Nut (Heat #)                          |               | Nut (Heat #)   |                    |
| Dies Used                             | 97MM          | Dies Used  | 97MM               |
| Hydrostatic Test Requirements         |               |  |                    |
| Test Pressure (psi)                   | 15,000        | Hose assembly was tested with ambient water temperature. |                    |
| Test Pressure Hold Time (minutes)     | 17 3/4        |  |                    |
|                                       |               |  |                    |
| Date Tested                           | Tested By     |  | Approved By        |
| 3/10/2015                             |               |  |                    |

## **Casing Design Criteria and Load Case Assumptions**

### **Surface Casing**

Collapse:  $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst:  $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore pressure.

Tensile:  $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.3 ppg).

## **Casing Design Criteria and Load Case Assumptions**

### **Intermediate #1 Casing**

Collapse:  $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst:  $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile:  $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).



## **Casing Design Criteria and Load Case Assumptions**

### **Production Casing**

Collapse:  $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst:  $DF_b=1.125$

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.

Tensile:  $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

**Matador Production Company**  
**Verna Rae Fed Com 134H**  
**SHL 260' FNL & 1725' FEL**  
**BHL 240' FSL & 660' FEL**  
**Sec. 6, T. 20 S., R. 34 E., Lea County, NM**

**DRILL PLAN PAGE 2**

A 10,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attached BOP, choke manifold, co-flex hose, and speed head diagrams.

An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed.

Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required in Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

Surface casing will be pressure tested to 250 psi low and 2000 psi high. Intermediate casing pressure tests will be made to 250 psi low and 3000 psi high. Annular preventer will be tested to 250 psi low and 2500 psi high on the surface casing and tested to 250 psi low and 2500 psi high on the intermediate casing. In the case of running a speed head with landing mandrel for 9.625" casing, initial surface casing test pressures will be 250 psi low and 3000 psi high, with wellhead seals tested to 5000 psi once the 9.625" casing has been landed and cemented. Matador is requesting a variance to use a speed head. Speed head diameter range is 13.375" x 9.625" x 5.5" x 2.875".

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. Manufacturer does not require the hose to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

**4. CASING & CEMENT**

All casing will be API and new. See attached casing assumption worksheet.

| Hole O. D. | Set MD     | Set TVD    | Casing O. D.    | Weight (lb/ft) | Grade | Joint | Collapse | Burst | Tension |
|------------|------------|------------|-----------------|----------------|-------|-------|----------|-------|---------|
| 20"        | 0' - 1600' | 0' - 1600' | Surface 13.375" | 54.5           | J-55  | BTC   | 1.125    | 1.125 | 1.8     |
| 12.25"     | 0' - 5400' | 0' - 5392' | Inter. 9.625"   | 40             | J-55  | BTC   | 1.125    | 1.125 | 1.8     |

**Matador Production Company**  
**Verna Rae Fed Com 134H**  
**SHL 260' FNL & 1725' FEL**  
**BHL 240' FSL & 660' FEL**  
**Sec. 6, T. 20 S., R. 34 E., Lea County, NM**

**DRILL PLAN PAGE 3**

|       |             |             |               |    |       |       |       |       |     |
|-------|-------------|-------------|---------------|----|-------|-------|-------|-------|-----|
| 8.75" | 0' - 15618' | 0' - 10785' | Product. 5.5" | 20 | P-110 | DWC/C | 1.125 | 1.125 | 1.8 |
|-------|-------------|-------------|---------------|----|-------|-------|-------|-------|-----|

| Casing Name  | Type | Sacks       | Yield | Cu. Ft. | Weight   | Blend  |
|--------------|------|-------------|-------|---------|--|--|
| Surface      | Lead | 1764        | 1.75  | 3087    | 13.5   | Class C + 3% NaCl + LCM                                    |
|              | Tail | 559         | 1.38  | 771     | 14.8   | Class C + 5% NaCl + LCM                                    |
| TOC = GL     |      | 100% Excess |       |         | Centralizers per Onshore Order 2   |  |
| Intermediate | Lead | 1262        | 1.81  | 2284    | 13.5   | Class C + Bentonite + 1% CaCl <sub>2</sub> + 8% NaCl + LCM |
|              | Tail | 490         | 1.38  | 676     | 14.8   | Class C + 5% NaCl + LCM                                    |
| TOC = GL     |      | 100% Excess |       |         | 2 on btm jt, 1 on 2nd jt, 1 every 4th jt to GL                                     |  |
| Production   | Lead | 730         | 2.25  | 1642    | 11.5   | TXI + Fluid Loss + Dispersant + Retarder + LCM             |
|              | Tail | 1511        | 1.38  | 2085    | 13.2   | TXI + Fluid Loss + Dispersant + Retarder + LCM             |
| TOC = 4400'  |      | 35% Excess  |       |         | 2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (1000' above TOC) |  |

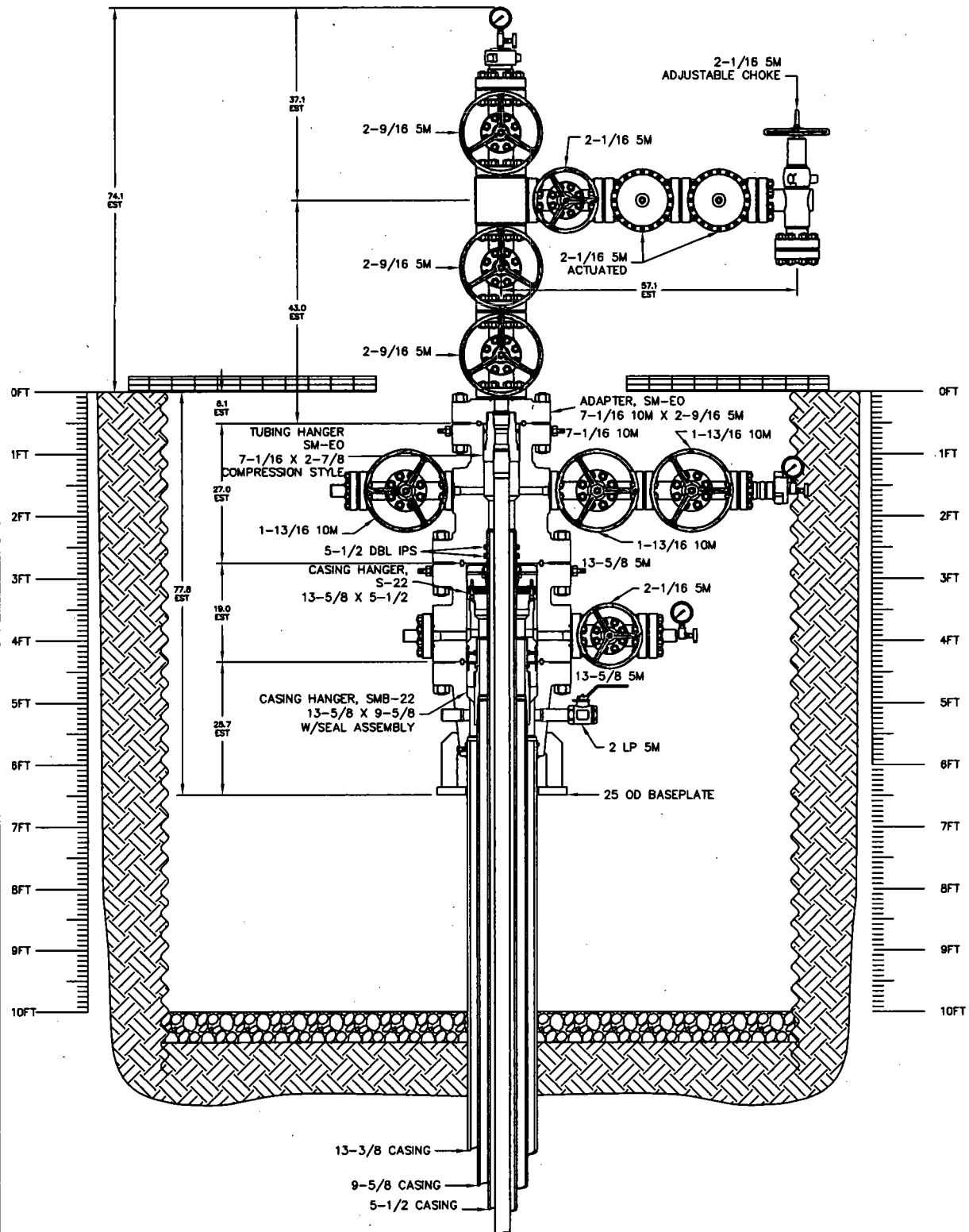
Matador requests the option to run a DV tool with annular packer as contingency in the intermediate section if lost circulation is encountered. If losses occur, then the DV tool with packer will be placed  $\geq 100'$  above the loss zone to give the option to pump cement as either a single stage or two stage.

### 5. MUD PROGRAM

An electronic Pason mud monitoring system complying with Onshore Order 1 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions. A closed loop system will be used.

| Type                    | Interval (MD)  | lb/gal | Viscosity | Fluid Loss |
|-------------------------|----------------|--------|-----------|------------|
| fresh water spud        | 0' - 1600'     | 8.4    | 28        | NC         |
| brine water             | 1600' - 5400'  | 10.0   | 30-32     | NC         |
| fresh water & cut brine | 5400' - 15618' | 9.0    | 30-32     | NC         |

MATADOR  
MQ-436



NOTE:  
DIMENSIONS SHOWN ON THIS DRAWING ARE  
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NO GUARANTEE OF STACKUP HEIGHT IS IMPLIED.  
DIMENSIONS SHOWN SHOULD BE CONSIDERED  
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**WEIR**

5,000 PSI WELLHEAD & TREE ASSEMBLY  
13-3/8 X 9-5/8 X 5-1/2 X 2-7/8

|              |     |              |         |       |         |      |  |
|--------------|-----|--------------|---------|-------|---------|------|--|
| DESIGN BY:   | RPL | SCALE:       | 1:10    | DATE: | 23SEP16 | REV: |  |
| CHECKED BY:  |     | DRAWING NO.: | P-21629 |       |         |      |  |
| APPROVED BY: |     |              |         |       |         |      |  |

## Technical Specifications

|                                  |                    |                        |               |
|----------------------------------|--------------------|------------------------|---------------|
| <b>Connection Type:</b>          | <b>Size(O.D.):</b> | <b>Weight (Wall):</b>  | <b>Grade:</b> |
| DWC/C-IS PLUS Casing<br>standard | 5-1/2 in           | 20.00 lb/ft (0.361 in) | VST P110 EC   |

|                    |                                 |
|--------------------|---------------------------------|
| <b>VST P110 EC</b> | <b>Material</b>                 |
| 125,000            | Grade                           |
| 135,000            | Minimum Yield Strength (psi)    |
|                    | Minimum Ultimate Strength (psi) |

|       |                                |
|-------|--------------------------------|
|       | <b>Pipe Dimensions</b>         |
| 5.500 | Nominal Pipe Body O.D. (in)    |
| 4.778 | Nominal Pipe Body I.D.(in)     |
| 0.361 | Nominal Wall Thickness (in)    |
| 20.00 | Nominal Weight (lbs/ft)        |
| 19.83 | Plain End Weight (lbs/ft)      |
| 5.828 | Nominal Pipe Body Area (sq in) |

|         |   |
|---------|---|
|         | <b>Pipe Body Performance Properties</b> |
| 729,000 | Minimum Pipe Body Yield Strength (lbs)  |
| 12,090  | Minimum Collapse Pressure (psi)         |
| 14,360  | Minimum Internal Yield Pressure (psi)   |
| 13,100  | Hydrostatic Test Pressure (psi)         |

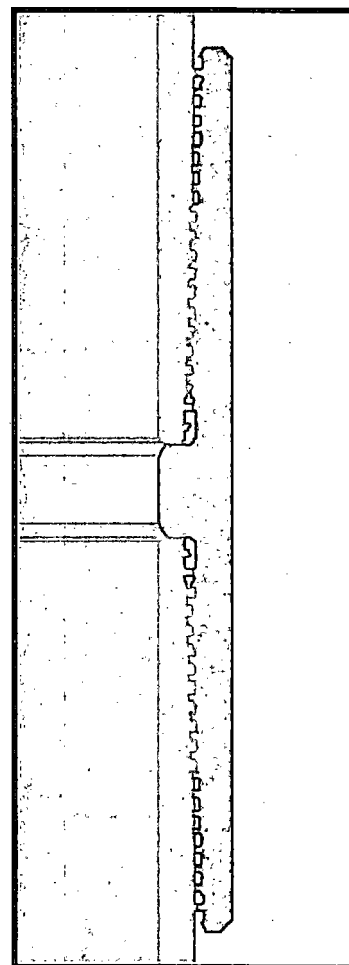
|       |                                |
|-------|--------------------------------|
|       | <b>Connection Dimensions</b>   |
| 6.300 | Connection O.D. (in)           |
| 4.778 | Connection I.D. (in)           |
| 4.653 | Connection Drift Diameter (in) |
| 4.13  | Make-up Loss (in)              |
| 5.828 | Critical Area (sq in)          |
| 100.0 | Joint Efficiency (%)           |

|         |  |
|---------|--|
|         | <b>Connection Performance Properties</b>       |
| 729,000 | Joint Strength (lbs)                           |
| 26,040  | Reference String Length (ft) 1.4 Design Factor |
| 728,000 | API Joint Strength (lbs)                       |
| 729,000 | Compression Rating (lbs)                       |
| 12,090  | API Collapse Pressure Rating (psi)             |
| 14,360  | API Internal Pressure Resistance (psi)         |
| 104.2   | Maximum Uniaxial Bend Rating [degrees/100 ft]  |

|        |   |
|--------|---|
|        | <b>Approximated Field End Torque Values</b> |
| 16,600 | Minimum Final Torque (ft-lbs)               |
| 19,100 | Maximum Final Torque (ft-lbs)               |
| 21,600 | Connection Yield Torque (ft-lbs)            |



VAM USA  
4424 W. Sam Houston Pkwy. Suite 150  
Houston, TX 77041  
Phone: 713-479-3200  
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E-mail: [VAMUSAsales@vam-usa.com](mailto:VAMUSAsales@vam-usa.com)



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

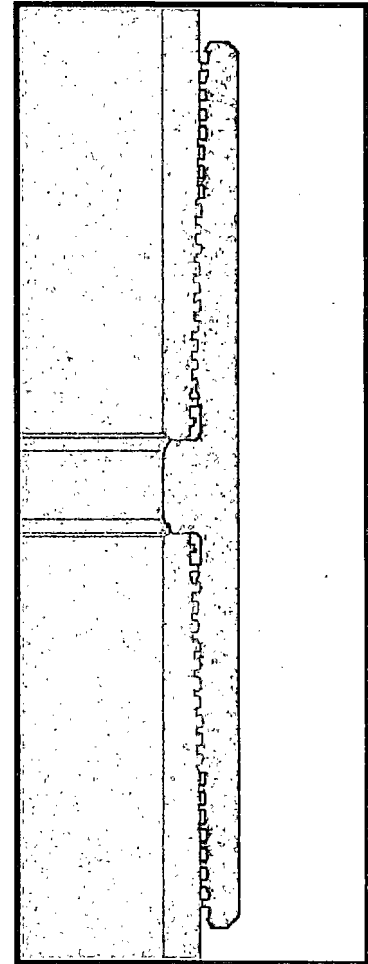
Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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#### DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



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All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

4/14/2015

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 section on 9-5/8" casing if lost circulation is encountered. If losses occur the DV tool with packer will be placed at least 100' above loss zone to give the option to pump cement as either a single stage or two stage.

#### **Matador DV Tool Specifications**

Example:

Assuming DV tool set at 4500' MD but if the setting depth changes, cement volumes will be adjusted proportionately.

Stage 1:

|                          |      |      |      |  |
|--------------------------|------|------|------|--|
| Lead                     | 1262 | 1.81 | 13.5 | Class C + Bentonite + 1% CaCL <sub>2</sub> + 8% NaCl + LCM |
| Tail                     | 490  | 1.38 | 14.8 | Class C + 5% NaCl + LCM                                    |
| 100% excess, TOC = 0' MD |      |      |      |  |

Stage 2:

|                          |      |      |      |  |
|--------------------------|------|------|------|--|
| Lead                     | 1324 | 1.81 | 13.5 | Class C + Bentonite + 1% CaCL <sub>2</sub> + 8% NaCl + LCM |
| 100% excess, TOC = 0' MD |      |      |      |  |



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## SUPO Data Report

12/21/2017

APD ID: 10400015169

Submission Date: 06/16/2017

Highlighted data  
reflects the most  
recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: VERNA RAE FEDERAL COM

Well Number: 134H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

VernaRae\_134H\_Road\_Map\_06-15-2017.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

VernaRae\_134H\_Road\_Map\_06-15-2017.pdf

New road type: RESOURCE

Length: 629.25 Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Crown & ditch, surface with caliche

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:



**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERNA RAE FEDERAL COM

**Well Number:** 134H

**Access surfacing type:** OTHER

**Access topsoil source:** ONSITE

**Access surfacing type description:** Caliche

**Access onsite topsoil source depth:** 6

**Offsite topsoil source description:**

**Onsite topsoil removal process:** grader

**Access other construction information:**

**Access miscellaneous information:**

**Number of access turnouts:**

**Access turnout map:**

### Drainage Control

**New road drainage crossing:** OTHER

**Drainage Control comments:** No drainage crossings needed.

**Road Drainage Control Structures (DCS) description:** Crown & ditch, no culverts needed.

**Road Drainage Control Structures (DCS) attachment:**

### Access Additional Attachments

**Additional Attachment(s):**

## Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

VernaRae\_134H\_Well\_Map\_06-15-2017.pdf

**Existing Wells description:**

## Section 4 - Location of Existing and/or Proposed Production Facilities

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:**

**Production Facilities map:**

VernaRae\_134H\_Production\_Diagram\_06-15-2017.pdf

## Section 5 - Location and Types of Water Supply

### Water Source Table

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERNA RAE FEDERAL COM

**Well Number:** 134H

**Water source use type:** DUST CONTROL, STIMULATION

**Water source type:** GW WELL

**Describe type:**

**Source latitude:**

**Source longitude:**

**Source datum:**

**Water source permit type:** PRIVATE CONTRACT

**Source land ownership:** PRIVATE

**Water source transport method:** TRUCKING

**Source transportation land ownership:** PRIVATE

**Water source volume (barrels):** 15000

**Source volume (acre-feet):** 1.9333965

**Source volume (gal):** 630000

**Water source and transportation map:**

VernaRae\_134H\_Water\_Source\_Map\_06-15-2017.pdf

**Water source comments:**

**New water well?** NO

### New Water Well Info

**Well latitude:**

**Well Longitude:**

**Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):**

**Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):**

**Well casing type:**

**Well casing outside diameter (in.):**

**Well casing inside diameter (in.):**

**New water well casing?**

**Used casing source:**

**Drilling method:**

**Drill material:**

**Grout material:**

**Grout depth:**

**Casing length (ft.):**

**Casing top depth (ft.):**

**Well Production type:**

**Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERNA RAE FEDERAL COM

**Well Number:** 134H

### Section 6 - Construction Materials

**Construction Materials description:** NM One Call (811) will be notified before construction starts. Top 6" of soil and brush will be stockpiled north of the pad. V-door will face south. Closed loop drilling system will be used. Caliche will be hauled from existing caliche pits on private land. Klein pit is in SWNW 27-19S-35E. Berry pit is in E2NE4 35-20s-34e.

**Construction Materials source location attachment:**

### Section 7 - Methods for Handling Waste

**Waste type:** DRILLING

**Waste content description:** cuttings and mud

**Amount of waste:** 15000 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** steel tanks

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

**Disposal type description:**

**Disposal location description:** Halfway, NM

### Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

**Reserve pit length (ft.)** **Reserve pit width (ft.)**

**Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

### Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** YES

**Description of cuttings location** Steel tanks on pad

**Cuttings area length (ft.)** **Cuttings area width (ft.)**

**Cuttings area depth (ft.)** **Cuttings area volume (cu. yd.)**

**Is at least 50% of the cuttings area in cut?**

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERNA RAE FEDERAL COM

**Well Number:** 134H

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

## Section 8 - Ancillary Facilities

**Are you requesting any Ancillary Facilities?:** NO

**Ancillary Facilities attachment:**

**Comments:**

## Section 9 - Well Site Layout

**Well Site Layout Diagram:**

VernaRae\_134H\_Well\_Site\_Layout\_06-15-2017.pdf

**Comments:**

## Section 10 - Plans for Surface Reclamation

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** VERNA RAE

**Multiple Well Pad Number:** SLOT 3

**Recontouring attachment:**

VernaRae\_134H\_Recontour\_Plat\_06-15-2017.PDF

VernaRae\_134H\_Interim\_Reclamation\_Diagram\_20171023103126.PDF

**Drainage/Erosion control construction:** Surface with caliche

**Drainage/Erosion control reclamation:** Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the surface owner's requirements.

**Wellpad long term disturbance (acres):** 3.15

**Wellpad short term disturbance (acres):** 3.57

**Access road long term disturbance (acres):** 0.43

**Access road short term disturbance (acres):** 0.43

**Pipeline long term disturbance (acres):** 0

**Pipeline short term disturbance (acres):** 0

**Other long term disturbance (acres):** 0

**Other short term disturbance (acres):** 0.49

**Total long term disturbance:** 3.58

**Total short term disturbance:** 4.49

**Reconstruction method:** Within 7 days disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour with a grader. Disturbed areas will be seeded in accordance with the surface owner's requirements.

**Topsoil redistribution:** Soil will be evenly spread over disturbed areas

**Soil treatment:** No soil treatment planned, site will be revegetated in accordance with the surface owner's requirements.

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERNA RAE FEDERAL COM

**Well Number:** 134H

**Existing Vegetation at the well pad:**

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:**

**Existing Vegetation Community at the road attachment:**

**Existing Vegetation Community at the pipeline:**

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:**

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?**

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?**

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?**

**Seed harvest description:**

**Seed harvest description attachment:**

## Seed Management

### Seed Table

**Seed type:**

**Seed source:**

**Seed name:**

**Source name:**

**Source address:**

**Source phone:**

**Seed cultivar:**

**Seed use location:**

**PLS pounds per acre:**

**Proposed seeding season:**

### Seed Summary

**Total pounds/Acre:**

| Seed Type | Pounds/Acre |
|-----------|-------------|
|-----------|-------------|

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERNA RAE FEDERAL COM

**Well Number:** 134H

**Seed reclamation attachment:**

**Operator Contact/Responsible Official Contact Info**

**First Name:**

**Last Name:**

**Phone:**

**Email:**

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** Noxious weeds will be controlled.

**Weed treatment plan attachment:**

**Monitoring plan description:** On pumper visits.

**Monitoring plan attachment:**

**Success standards:** To landowner's specifications.

**Pit closure description:** N/A (closed loop)

**Pit closure attachment:**

**Section 11 - Surface Ownership**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** PRIVATE OWNERSHIP

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** VERNA RAE FEDERAL COM

**Well Number:** 134H

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Fee Owner:** Larry Hughes

**Fee Owner Address:** HC 69 Box 57 Monument NM 88265

**Phone:** (575)263-7602

**Email:**

**Surface use plan certification:** NO

**Surface use plan certification document:**

**Surface access agreement or bond:** Agreement

**Surface Access Agreement Need description:** Matador Resources Company has a private surface owner agreement with Larry Hughes (HC 69 Box 57, Monument NM 88265) for the Verna Rae Fed Com road in SESE Sec. 31, T. 19 S., R. 34 E. and the Verna Rae Fed Com slot 3 well site, road, and power line in Section 6, T. 20 S., R. 34 E., Lea County, NM. Matador Resources Company will file an Application for Right-Of-Way Easement with the NM State Land Office (PO Box 1148, Santa Fe NM 87504) for road access across S2S2 32-19s-34e. Their phone number is (505) 827-5728.

**Surface Access Bond BLM or Forest Service:** BLM

**BLM Surface Access Bond number:**

**USFS Surface access bond number:**

## Section 12 - Other Information

**Right of Way needed?** NO

**Use APD as ROW?**

**ROW Type(s):**

### ROW Applications

**SUPO Additional Information:** Deficiency Letter of 10/3/17 requested: 1) Cut & fill diagram - see Recontour Plat in reclamation section as originally attached; 2) Surface Use Agreement - see attachment in Other SUPO attachments.

**Use a previously conducted onsite?** YES

**Previous Onsite information:** On site inspection was held with Vance Wolf, Cassie Brooks, and Bob Ballard (all BLM) on April 3, 2017.

### Other SUPO Attachment

VernaRae\_134H\_General\_SUPO\_06-15-2017.pdf

VernaRae\_134H\_Surface\_Use\_Agreement\_20171005100120.pdf



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## PWD Data Report

12/21/2017

### Section 1 - General

Would you like to address long-term produced water disposal? NO

### Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:



### **Section 3 - Unlined Pits**

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

### **Section 4 - Injection**

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

**Injection well type:**

**Injection well number:**

**Injection well name:**

**Assigned injection well API number?**

**Injection well API number:**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection attachment:**

**Underground Injection Control (UIC) Permit?**

**UIC Permit attachment:**

### **Section 5 - Surface Discharge**

**Would you like to utilize Surface Discharge PWD options? NO**

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

### **Section 6 - Other**

**Would you like to utilize Other PWD options? NO**

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD discharge volume (bbl/day):**

**Other PWD type description:**

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Bond Info Data Report

12/21/2017

### Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001079

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Operator Certification Data Report

12/21/2017

### 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 which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed 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.*

**NAME:** Brian Wood

**Signed on:** 06/16/2017

**Title:** President

**Street Address:** 37 Verano Loop

**City:** Santa Fe

**State:** NM

**Zip:** 87508

**Phone:** (505)466-8120

**Email address:** afmss@permitswest.com

### Field Representative

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

June 12, 2017

To Who it May Concern:

Matador Resources Company has a private surface owner agreement with Larry Hughes (HC 69 Box 57, Monument NM 88265) for the Verna Rae Fed Com road in SESE Sec. 31, T. 19 S., R. 34 E. and the Verna Rae Fed Com 134H well site, road, and power line in Lots 1 & 2 of Section 6, T. 20 S., R. 34 E., Lea County, NM. His phone number is (575) 263-7602.

Matador Resources Company will file an Application for Right-Of-Way Easement with the NM State Land Office (PO Box 1148, Santa Fe NM 87504) for road access across S2S2 32-19s-34e. Their phone number is (505) 827-5728.

A handwritten signature in black ink, appearing to read "B. Wood". The signature is stylized with a large, looped "B" and a cursive "Wood".

Brian Wood