

HOBBS OCD**AUG 16 2018**Form 3160-3
(March 2012)**Carlsbad Field Office**
OCD HobbsFORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014**RECEIVED**
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**APPLICATION FOR PERMIT TO DRILL OR REENTER**1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone2. Name of Operator
MATADOR PRODUCTION COMPANY (228937)3a. Address
5400 LBJ Freeway, Suite 1500 Dallas TX 75243b. Phone No. (include area code)
(972)371-52004. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface SESW / 509 FSL / 1960 FWL / LAT 32.2842407 / LONG -103.4088601

At proposed prod. zone NENW / 240 FNL / 1650 FWL / LAT 32.2967036 / LONG -103.4098653

14. Distance in miles and direction from nearest town or post office*

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)
311 feet16. No. of acres in lease
557.4417. Spacing Unit dedicated to this well
157.3418. Distance from proposed location*
to nearest well, drilling, completed, 30 feet
applied for, on this lease, ft.19. Proposed Depth
11500 feet / 16271 feet20. BLM/BIA Bond No. on file
FED: NMB00107921. Elevations (Show whether DF, KDB, RT, GL, etc.)
3389 feet22. Approximate date work will start*
12/01/201823. Estimated duration
25 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
(Electronic Submission)Name (Printed/Typed)
Lara Thompson / Ph: (505)254-1115Date
03/09/2018Title
Assistant Project ManagerApproved by (Signature)
(Electronic Submission)Name (Printed/Typed)
Cody Layton / Ph: (575)234-5959Date
07/06/2018Title
Assistant Field Manager Lands & MineralsOffice
CARLSBADApplication 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)

GCP Rec 08/16/18

APPROVED WITH CONDITIONS
Approval Date: 07/06/2018Kee
08/17/18

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

I. SHL: SESW / 509 FSL / 1960 FWL / TWSP: 23S / RANGE: 35E / SECTION: 19 / LAT: 32.2842407 / LONG: -103.4088601 (TVD: 0 feet, MD: 0 feet)
PPP: SESW / 330 FSL / 1650 FWL / TWSP: 23S / RANGE: 35E / SECTION: 19 / LAT: 32.2837481 / LONG: -103.4098635 (TVD: 11500 feet, MD: 11851 feet)
BHL: NENW / 240 FNL / 1650 FWL / TWSP: 23S / RANGE: 35E / SECTION: 19 / LAT: 32.2967036 / LONG: -103.4098653 (TVD: 11500 feet, MD: 16271 feet)

BLM Point of Contact

Name: Judith Yeager

Title: Legal Instruments Examiner

Phone: 5752345936

Email: jyeager@blm.gov

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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.

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

Operator Certification Data Report

07/19/2018

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: Lara Thompson

Signed on: 04/25/2018

Title: Assistant Project Manager

Street Address: 5647 Jefferson Street NE

City: Albuquerque

State: NM

Zip: 87109

Phone: (505)254-1115

Email address: Lara.Thompson@swca.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



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

Application Data Report

07/19/2018

APD ID: 10400027932

Submission Date: 03/09/2018

Highlighted data
reflects the most
recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400027932

Tie to previous NOS?

Submission Date: 03/09/2018

BLM Office: CARLSBAD

User: Lara Thompson

Title: Assistant Project Manager

Federal/Indian APD: FED

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

Lease number: NMNM113422

Lease Acres: 557.44

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

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: DR IRELAND FED COM

Well Number: 132H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BONESPRING

Pool Name:

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: DR Number: 4

Well Class: HORIZONTAL

IRELAND FEDERAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town:

Distance to nearest well: 30 FT

Distance to lease line: 311 FT

Reservoir well spacing assigned acres Measurement: 157.34 Acres

Well plat: 1Mile_Radius_Map_20180306115941.docx

BO_DR_IRELAND_FED_COM_SLOT_2_SURFACE_PAD_SITE_S_20180306121505.pdf

CD_DR_IRELAND_FED_COM_SLOT_2_SURFACE_PAD_PRO_S_20180306121505.pdf

DrIrelandFederal132H_signed_20180425170215.pdf

Well work start Date: 12/01/2018

Duration: 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

| | 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 Leg #1 | 509 | FSL | 196 0 | FWL | 23S | 35E | 19 | Aliquot SESW | 32.28424 07 | - 103.4088 601 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 113422 | 338 9 | 0 | 0 |
| KOP Leg #1 | 509 | FSL | 196 0 | FWL | 23S | 35E | 19 | Aliquot SESW | 32.28424 07 | - 103.4088 601 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 113422 | 228 9 | 110 0 | 110 0 |

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

| | 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 Leg #1 | 330 | FSL | 165 0 | FWL | 23S | 35E | 19 | Aliquot SESW | 32.28374 81 | - 103.4098 635 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 113422 | - 811 1 | 118 51 | 115 00 |
| EXIT Leg #1 | 330 | FNL | 165 0 | FWL | 23S | 35E | 19 | Aliquot NENW | 32.29645 62 | - 103.4098 653 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 113422 | - 811 1 | 161 81 | 115 00 |
| BHL Leg #1 | 240 | FNL | 165 0 | FWL | 23S | 35E | 19 | Aliquot NENW | 32.29670 36 | - 103.4098 653 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 113422 | - 811 1 | 162 71 | 115 00 |



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

Drilling Plan Data Report

07/19/2018

APD ID: 10400027932

Submission Date: 03/09/2018

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes.

[Show Final Text](#)

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical Depth | Measured Depth | Lithologies | Mineral Resources | Producing Formation |
|--------------|------------------|-----------|---------------------|----------------|-------------|-------------------|---------------------|
| 1 | RUSTLER | 3384 | 1263 | 1263 | | USEABLE WATER | No |
| 2 | SALADO | 1767 | 1617 | 1617 | | NONE | No |
| 3 | BASE OF SALT | -578 | 3962 | 3962 | | NONE | No |
| 4 | BELL CANYON | -2090 | 5474 | 5474 | | NATURAL GAS,OIL | No |
| 5 | BRUSHY CANYON | -4078 | 7462 | 7462 | | NATURAL GAS,OIL | No |
| 6 | BONE SPRING LIME | -5392 | 8776 | 8776 | | NATURAL GAS,OIL | No |
| 7 | BONE SPRING 1ST | -6109 | 9493 | 9493 | | NATURAL GAS,OIL | No |
| 8 | BONE SPRING 2ND | -6631 | 10015 | 10015 | | NATURAL GAS,OIL | Yes |
| 9 | BONE SPRING 3RD | -7331 | 10715 | 10715 | | NATURAL GAS,OIL | No |
| 10 | WOLFCAMP | -8260 | 11644 | 11644 | | NATURAL GAS,OIL | Yes |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 2M

Rating Depth: 15000

Equipment: See Exhibit E-1. A BOP consisting of 3 rams with 2 pipe rams, 1 blind ram and one annular preventer. The BOP will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A 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.

Requesting Variance? YES

Variance request: The operator requests a variance to have the option of running a speed head for setting the intermediate strings. In the case of running a speed head with landing mandrel for 9-5/8" casing, a minimum of a 3M BOPE system will be installed after surface casing is set. Matador Resources 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 (see Exhibit E-2). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

Testing Procedure: After setting surface casing and before drilling below the surface casing shoe, a minimum of a 2M BOPE system will be installed and tested to 250 psi low and 2000 psi high with the annular being tested to 250 psi low and 1000 psi high. After setting intermediate casing, a minimum of a 3M system will be installed and tested to 250 psi low and 3000 psi high with the annular being tested to 250 psi low and 2500 psi high.

Choke Diagram Attachment:

Choke_Manifold_20180306141145.pdf

BOP Diagram Attachment:

BOP_297_001_20180306141155.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 | 17.5 | 13.375 | NEW | API | N | 0 | 850 | 0 | 850 | | | 850 | J-55 | 54.5 | OTHER - BTC | 1.125 | 1.125 | BUOY | 1.8 | BUOY | 1.8 |
| 2 | INTERMEDIATE | 12.25 | 9.625 | NEW | API | N | 0 | 5400 | 0 | 5400 | | | 5400 | J-55 | 40 | OTHER - BTC | 1.125 | 1.125 | BUOY | 1.8 | BUOY | 1.8 |
| 3 | PRODUCTION | 8.75 | 5.5 | NEW | NON API | N | 4400 | 16271 | 4400 | 16271 | | | 11871 | P-110 | 20 | OTHER - BTC/XP | 1.125 | 1.125 | BUOY | 1.8 | BUOY | 1.8 |

Casing Attachments

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

Inspection Document:

Spec Document:

TenarisHydril_TenarisXP_BTC_5.500_20_20180213122618.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLM_Casing_Design_Assumptions_3_string_20180213123000.pdf

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLM_Casing_Design_Assumptions_3_string_20180213122944.pdf

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

Inspection Document:

Spec Document:

TenarisHydril_TenarisXP_BTC_5.500_20_20180306142420.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLM_Casing_Design_Assumptions_3_string_20180213122951.pdf

Section 4 - Cement

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|--------------|-----------|------------------|--------|-----------|--------------|-------|---------|--------|---------|-------------|--|
| SURFACE | Lead | | 0 | 850 | 210 | 1.82 | 12.8 | 382 | 100 | Class C | Bentonite + 2% CaCL2 + 3% NaCl + LCM |
| SURFACE | Tail | | 0 | 850 | 720 | 1.39 | 14.8 | 1001 | 100 | Class C | 5% NaCl + LCM |
| INTERMEDIATE | Lead | | 0 | 5400 | 1170 | 2.13 | 12.6 | 2492.1 | 100 | Class C | Bentonite + 1% CaCL2 + 8% NaCl + LCM |
| INTERMEDIATE | Tail | | 0 | 5400 | 620 | 1.38 | 14.8 | 856 | 100 | Class C | 5% NaCl + LCM |
| PRODUCTION | Lead | | 4400 | 1627.1 | 760 | 2.35 | 11.5 | 1786 | 35 | TXI | Fluid Loss + Dispersant + Retarder + LCM |

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|---|
| PRODUCTION | Tail | | 4400 | 1627 1 | 1500 | 1.39 | 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: See Exhibit E-1. A BOP consisting of 3 rams with 2 pipe rams, 1 blind ram and one annular preventer. The BOP will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A 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.

Describe the mud monitoring system utilized: The Mud Monitoring System is an electronic Pason system satisfying requirements of Onshore Order 1. Mud Logging Program: 2 man unit from 5400 – TD.

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 | 850 | SPUD MUD | 8.3 | 8.3 | | | | | | | |
| 0 | 5400 | SALT SATURATED | 10 | 10 | | | | | | | |
| 4400 | 1627 1 | OTHER : FW/ Cut Brine | 9 | 9 | | | | | | | |

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

Section 6 - Test, Logging, Coring

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

See page 3 of Drilling Plan attached in Other Facets, Section 8.

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

CBL,GR,MUDLOG

Coring operation description for the well:

No DSTs or cores are planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5500

Anticipated Surface Pressure: 2970

Anticipated Bottom Hole Temperature(F): 175

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:

Matador_Hydrogen_Sulfide_Drilling_Leslie__024_20180307130247.docx

H2S_Emergency_Contacts_20180529152612.docx

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Dr._Ireland_Fed_Com__132H__Well_Plan_v1_20180308141501.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

297Co_Flex_Certs__Dr._Ireland_Fed_Com__132H_20180307130455.pdf

Close_Loop_System_20180307130517.docx

3_string_Speed_Head_20180307130625.pdf

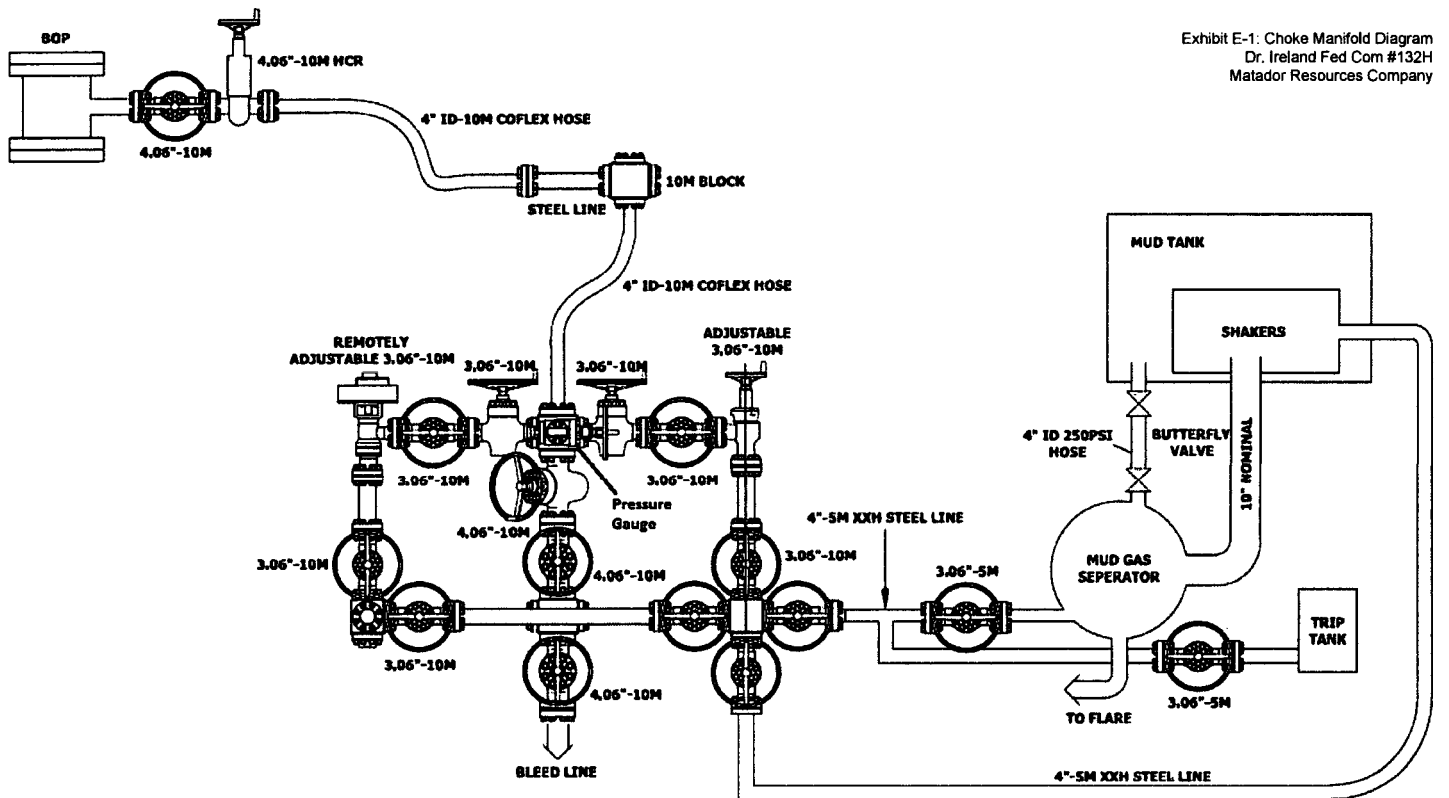
Dr_132H_Geoprog_V1_20180308134343.pdf

Dr._Ireland_Fed_Com__132H_MTDR_Drlg_Plan_20180308141521.docx

Gas_Capture_Plan__Dr._Ireland_131H__132H__133H__134H_20180529152628.docx

Other Variance attachment:

Exhibit E-1: Choke Manifold Diagram
Dr. Ireland Fed Com #132H
Matador Resources Company



WELDING NOTE & TOLERANCES UNLESS OTHERWISE SPECIFIED.

GENERAL WELDING NOTE:
ALL ACCE. COUPLERS AND SURFACES SHALL BE WELDED WITH CONTINUOUS JOINTS. ALL WELDS SHALL BE 1/8\"/>

| REV | DATE | DESCRIPTION | BY | CHK | APP |
|-----|--------|------------------------|----|-----|-----|
| 01 | 6-2-16 | ISSUED FOR INFORMATION | | | |
| 02 | 6-2-16 | ISSUED FOR INFORMATION | | | |

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DRILLING COMPANY LLC

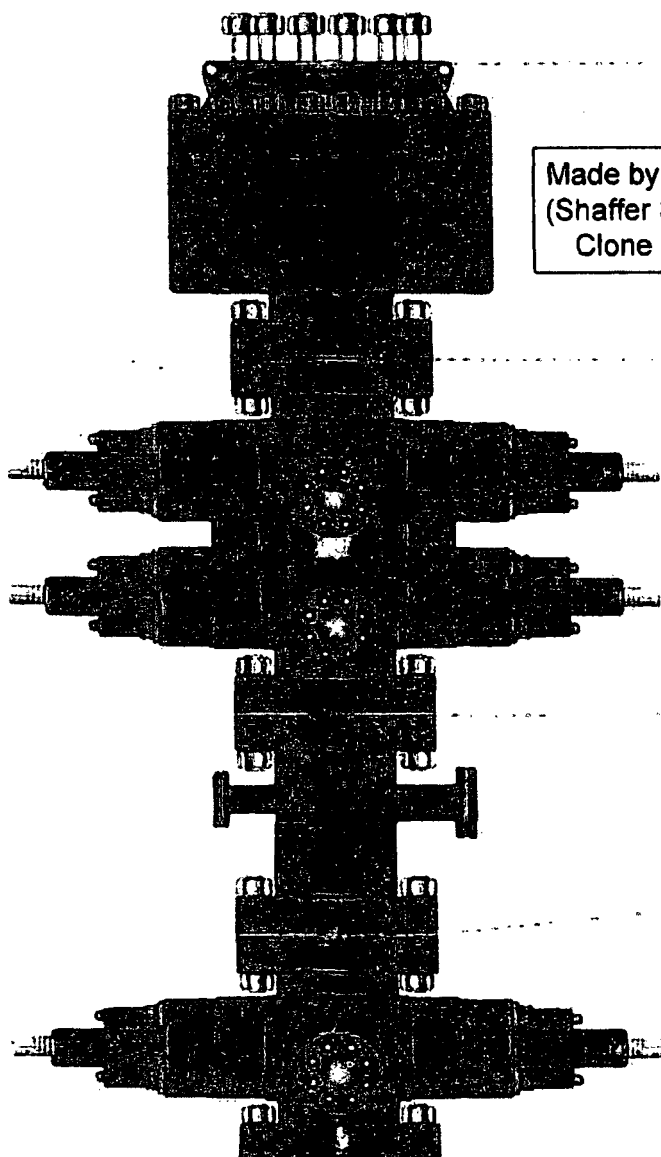
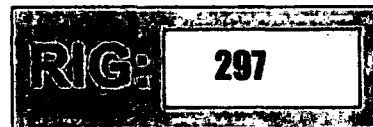
CHOKE MANIFOLD
10M CHOKE ARRANGEMENT
RIG 207

Drawn: **R0297-0.001.LAY.03**



PATTERSON-UTI

Well Control



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

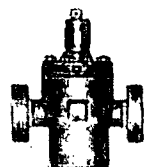
RAMS: 5" Pipe

HEIGHT: 41 5/8" WEIGHT: 13,000 lbs

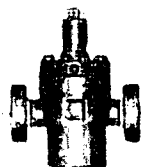
WING VALVES



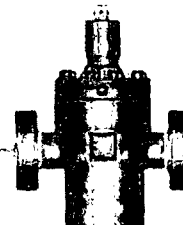
2" Check Valve



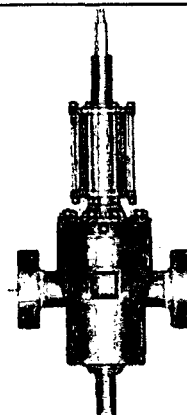
2" Manual Valve



2" Manual Valve



4" Manual Valve



4" Hydraulic Valve

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

February 02 2017



Connection: TenarisXP® BTC
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.500 in.
Wall: 0.361 in.
Weight: 20.00 lbs/ft
Grade: P110-IC
Min. Wall Thickness: 87.5 %

| PIPE BODY DATA | | | |
|--|----------------|---|----------------|
| GEOMETRY | | | |
| Nominal OD | 5.500 in. | Nominal Weight | 20.00 lbs/ft |
| Nominal ID | 4.778 in. | Wall Thickness | 0.361 in. |
| Plain End Weight | 19.83 lbs/ft | Standard Drift Diameter | 4.653 in. |
| | | Special Drift Diameter | N/A |
| PERFORMANCE | | | |
| Body Yield Strength | 641 x 1000 lbs | Internal Yield | 12630 psi |
| Collapse | 12100 psi | SMYS | 110000 psi |
| TENARISXP® BTC CONNECTION DATA | | | |
| GEOMETRY | | | |
| Connection OD | 6.100 in. | Coupling Length | 9.450 in. |
| Critical Section Area | 5.828 sq. in. | Threads per in. | 5.00 |
| | | Connection ID | 4.766 in. |
| | | Make-Up Loss | 4.204 in. |
| PERFORMANCE | | | |
| Tension Efficiency | 100 % | Joint Yield Strength | 641 x 1000 lbs |
| Structural Compression Efficiency | 100 % | Structural Compression Strength | 641 x 1000 lbs |
| External Pressure Capacity | 12100 psi | Internal Pressure Capacity ⁽¹⁾ | 12630 psi |
| | | Structural Bending ⁽²⁾ | 92 °/100 ft |
| ESTIMATED MAKE-UP TORQUES ⁽³⁾ | | | |
| Minimum | 11270 ft-lbs | Optimum | 12520 ft-lbs |
| | | Maximum | 13770 ft-lbs |
| OPERATIONAL LIMIT TORQUES | | | |
| Operating Torque | 21500 ft-lbs | Yield Torque | 23900 ft-lbs |
| BLANKING DIMENSIONS | | | |
| Blanking Dimensions | | | |

(1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per

section 10.3 API 5C3 / ISO 10400 - 2007.

(2) Structural rating, pure bending to yield (i.e no other loads applied)

(3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at licensees@oilfield.tenaris.com. Torque values may be further reviewed.

For additional information, please contact us at contact-tenarishydril@tenaris.com

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

February 02 2017



Connection: TenarisXP® BTC
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.500 in.
Wall: 0.361 in.
Weight: 20.00 lbs/ft
Grade: P110-IC
Min. Wall Thickness: 87.5 %

| PIPE BODY DATA | | | |
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| Plain End Weight | 19.83 lbs/ft | Standard Drift Diameter | 4.653 in. |
| | | Special Drift Diameter | N/A |
| PERFORMANCE | | | |
| Body Yield Strength | 641 x 1000 lbs | Internal Yield | 12630 psi |
| Collapse | 12100 psi | SMYS | 110000 psi |
| TENARISXP® BTC CONNECTION DATA | | | |
| GEOMETRY | | | |
| Connection OD | 6.100 in. | Coupling Length | 9.450 in. |
| Critical Section Area | 5.828 sq. in. | Threads per in. | 5.00 |
| | | Connection ID | 4.766 in. |
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| PERFORMANCE | | | |
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| Structural Compression Efficiency | 100 % | Structural Compression Strength | 641 x 1000 lbs |
| External Pressure Capacity | 12100 psi | Internal Pressure Capacity ⁽¹⁾ | 12630 psi |
| | | Structural Bending ⁽²⁾ | 92 °/100 ft |
| ESTIMATED MAKE-UP TORQUES ⁽³⁾ | | | |
| Minimum | 11270 ft-lbs | Optimum | 12520 ft-lbs |
| | | Maximum | 13770 ft-lbs |
| OPERATIONAL LIMIT TORQUES | | | |
| Operating Torque | 21500 ft-lbs | Yield Torque | 23900 ft-lbs |
| BLANKING DIMENSIONS | | | |
| Blanking Dimensions | | | |

(1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per

section 10.3 API 5C3 / ISO 10400 - 2007.

(2) Structural rating, pure bending to yield (i.e no other loads applied)

(3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at licensees@oilfield.tenaris.com. Torque values may be further reviewed.

For additional information, please contact us at contact-tenarishydril@tenaris.com

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).

Intermediate #2 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).

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).

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).

Intermediate #2 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).

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).

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).

Intermediate #2 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).

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).



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 |
| Date Assembled | 12/8/2014 | Hose Grade | MUD |
| Location Assembled | OKC | Hose Working Pressure | 10000 |
| Sales Order # | 236404 | Hose Lot # and Date Code | 10490-01/13 |
| Customer Purchase Order # | 260471 | Hose I.D. (Inches) | 3" |
| Assembly Serial # (Pick Ticket #) | 287918-2 | Hose O.D. (Inches) | 5.30" |
| Hose Assembly Length | 10' | Armor (yes/no) | YES |
| Fittings | | | |
| End A | | End B | |
| Stem (Part and Revision #) | R3.0X64WB | Stem (Part and Revision #) | R3.0X64WB |
| Stem (Heat #) | 91996 | Stem (Heat #) | 91996 |
| Ferrule (Part and Revision #) | RF3.0 | Ferrule (Part and Revision #) | RF3.0 |
| Ferrule (Heat #) | 37DA5631 | Ferrule (Heat #) | 37DA5631 |
| Connection (Part #) | 4 1/16 10K | Connection (Part #) | 4 1/16 10K |
| Connection (Heat #) | | Connection (Heat #) | |
| Dies Used | 5.37 | Dies Used | 5.37 |
| Hydrostatic Test Requirements | | | |
| Test Pressure (psi) | 15,000 | Hose assembly was tested with ambient water temperature. | |
| Test Pressure Hold Time (minutes) | 15 1/2 | | |
| | | | |
| Date Tested | Tested By | | Approved By |
| 12/8/2014 | | | |



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer: **PATTERSON B&E**

Customer P.O.# **260471**

Sales Order # **236404**

Date Assembled: **12/8/2014**

Specifications

Hose Assembly Type: **Choke & Kill**

Assembly Serial # **287918-2**

Hose Lot # and Date Code **10490-01/13**

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

12/9/2014

Exhibit E-2: Co-Flex Certifications
Dr. Ireland Fed Com #132H
Matador Resources Company



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

December 9, 2014

Customer: Patterson

Pick Ticket #: 284918

Hose Specifications

Hose Type

Ck

LD

3"

Length

20'

O.D.

4.77"

Verification

Type of Fitting

4-1/16 10K

Die Size

5.37"

Coupling Method

Swage

Final O.D.

5.40"

Working Pressure

10000 PSI

Burst Pressure

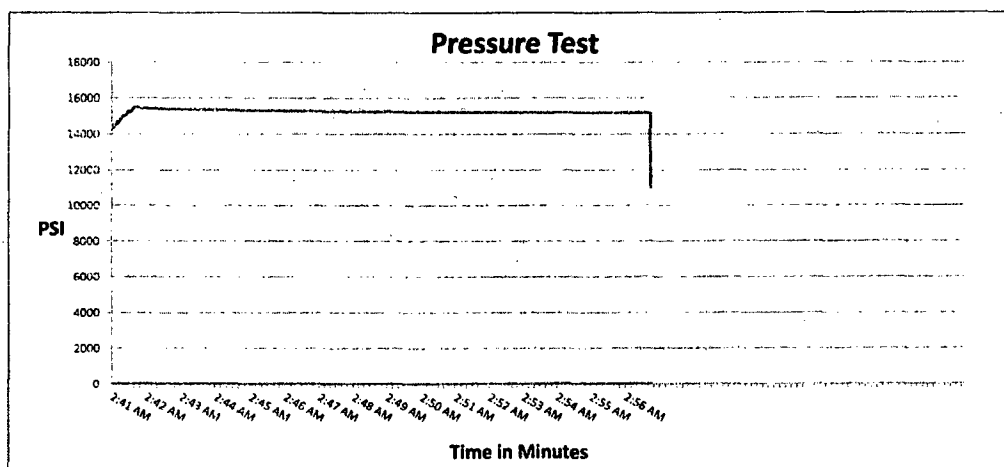
Standard Safety Multiplier Applies

Hose Serial

10490

Hose Assembly Serial

284918-1



Test Pressure
15000 PSI

Time Held at Test Pressure
15 2/4 Minutes

Actual Burst Pressure

Peak Pressure
15893 PSI

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

Tested By: Tyler Hill

Approved By: 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 |
| Date Assembled | 12/8/2014 | Hose Grade | MUD |
| Location Assembled | OKC | Hose Working Pressure | 10000 |
| Sales Order # | 236404 | Hose Lot # and Date Code | 10490-01/13 |
| Customer Purchase Order # | 260471 | Hose I.D. (Inches) | 3" |
| Assembly Serial # (Pick Ticket #) | 287918-1 | Hose O.D. (Inches) | 5.30" |
| Hose Assembly Length | 20' | Aarmor (yes/no) | YES |
| Fittings | | | |
| End A | | End B | |
| Stem (Part and Revision #) | R3.0X64WB | Stem (Part and Revision #) | R3.0X64WB |
| Stem (Heat #) | A141420 | Stem (Heat #) | A141420 |
| Ferrule (Part and Revision #) | RF3.0 | Ferrule (Part and Revision #) | RF3.0 |
| Ferrule (Heat #) | 37DA5631 | Ferrule (Heat #) | 37DA5631 |
| Connection (Part #) | 4 1/16 10K | Connection (Part #) | 4 1/16 10K |
| Connection (Heat #) | V3579 | Connection (Heat #) | V3579 |
| Dies Used | 5.37 | Dies Used | 5.37 |
| Hydrostatic Test Requirements | | | |
| Test Pressure (psi) | 15,000 | Hose assembly was tested with ambient water temperature. | |
| Test Pressure Hold Time (minutes) | 15 1/2 | | |
| | | | |
| Date Tested | Tested By | | Approved By |
| 12/9/2014 | | | |



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer: **PATTERSON B&E**

Customer P.O.# **260471**

Sales Order # **236404**

Date Assembled: **12/8/2014**

Specifications

Hose Assembly Type: **Choke & Kill**

Assembly Serial # **287918-1**

Hose Lot # and Date Code **10490-01/13**

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

12/9/2014

Exhibit E-2: Co-Flex Certifications
Dr. Ireland Fed Com #132H
Matador Resources Company



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

December 9, 2014

Customer: Patterson

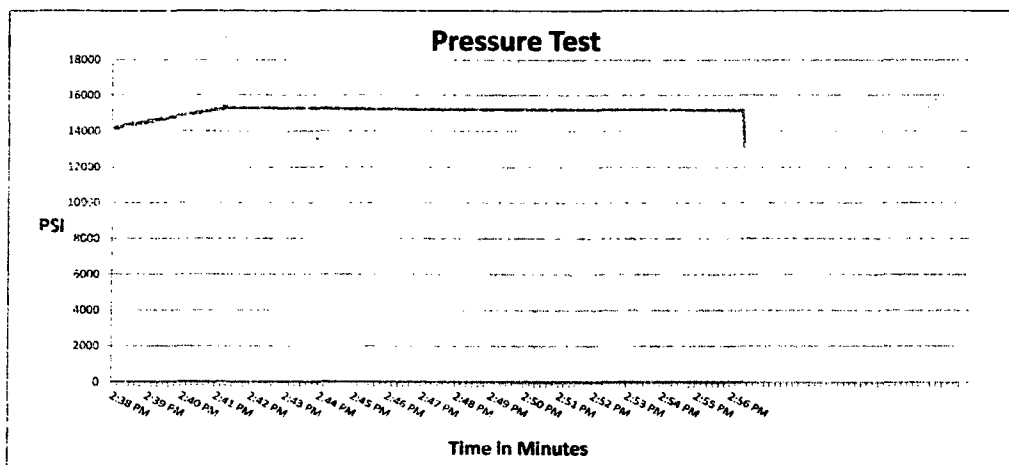
Pick Ticket #: 284918

Hose Specifications

| | |
|-------------------------|------------------------------------|
| Hose Type | Length |
| Mud | 70' |
| I.D. | O.D. |
| 3" | 4.79" |
| Working Pressure | Burst Pressure |
| 10000 PSI | Standard Safety Multiplier Applies |

Verification

| | |
|------------------------|-------------------------------|
| Type of Fitting | Coupling Method |
| 4 1/16 10K | Swage |
| Die Size | Final O.D. |
| 5.37" | 5.37" |
| Hose Serial # | Hose Assembly Serial # |
| 10490 | 284918-3 |



Test Pressure
15000 PSI

Time Held at Test Pressure
16 3/4 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



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 |
| Date Assembled | 12/8/2014 | Hose Grade | MUD |
| Location Assembled | OKC | Hose Working Pressure | 10000 |
| Sales Order # | 236404 | Hose Lot # and Date Code | 10490-01/13 |
| Customer Purchase Order # | 260471 | Hose I.D. (Inches) | 3" |
| Assembly Serial # (Pick Ticket #) | 287918-3 | Hose O.D. (Inches) | 5.23" |
| Hose Assembly Length | 70' | Aarmor (yes/no) | YES |
| Fittings | | | |
| End A | | End B | |
| <i>Stern (Part and Revision #)</i> | R3.0X64WB | <i>Stern (Part and Revision #)</i> | R3.0X64WB |
| <i>Stern (Heat #)</i> | A141420 | <i>Stern (Heat #)</i> | A141420 |
| <i>Ferrule (Part and Revision #)</i> | RF3.0 | <i>Ferrule (Part and Revision #)</i> | RF3.0 |
| <i>Ferrule (Heat #)</i> | 37DA5631 | <i>Ferrule (Heat #)</i> | 37DA5631 |
| <i>Connection (Part #)</i> | 4 1/16 10K | <i>Connection (Part #)</i> | 4 1/16 10K |
| <i>Connection (Heat #)</i> | | <i>Connection (Heat #)</i> | |
| <i>Dies Used</i> | 5.37 | <i>Dies Used</i> | 5.37 |
| Hydrostatic Test Requirements | | | |
| <i>Test Pressure (psi)</i> | 15,000 | <i>Hose assembly was tested with ambient water temperature.</i> | |
| <i>Test Pressure Hold Time (minutes)</i> | 16 3/4 | | |
| | | | |
| Date Tested | Tested By | Approved By | |
| 12/9/2014 |  |  | |



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

| | |
|------------------------------------|----------------------------------|
| Customer: PATTERSON B&E | Customer P.O.# 260471 |
| Sales Order # 236404 | Date Assembled: 12/8/2014 |

Specifications

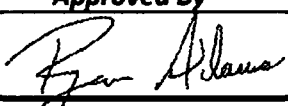
| | | | |
|-----------------------------|-------------------------|--------------------------|--------------------|
| Hose Assembly Type: | Choke & Kill | | |
| Assembly Serial # | 287918-3 | Hose Lot # and Date Code | 10490-01/13 |
| Hose Working Pressure (psi) | 10000 | Test Pressure (psi) | 15000 |

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 |
|  | 12/9/2014 |

Closed-Loop System

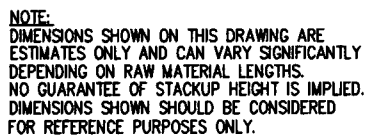
Operating and Maintenance Plan:

During drilling operations, third party service companies will utilize solids control equipment to remove cuttings from the drilling fluids and collect it in haul-off bins. Equipment will be closely monitored at all times while drilling by the derrick man and the service company employees.

Closure Plan:

During drilling operations, third party service companies will haul off drill solids and fluids to an approved disposal facility. At the end of the well, all closed loop equipment will be removed from the location.

MATADOR
MQ-436



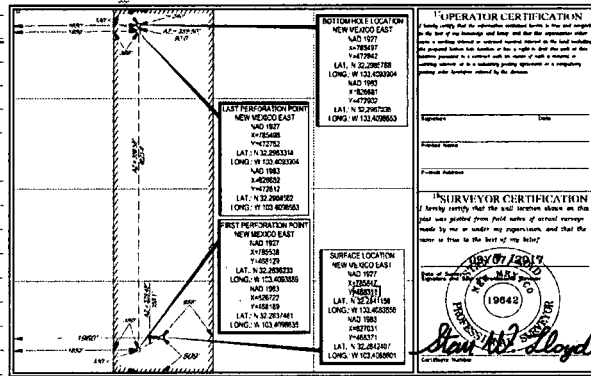
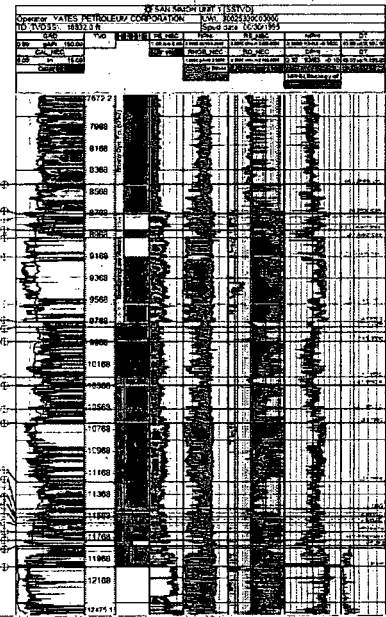
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5,000 PSI WELLHEAD & TREE ASSEMBLY
13-3/8 X 9-5/8 X 5-1/2 X 2-7/8

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

MATADOR PRODUCTION Co. FEDERAL APD WELL PROGNOSIS

| | | | |
|---------------------------------------|---------------------------|---------------------------------|-----------------------|
| General | | | |
| Operator | MRC | | |
| Lease | Dr. Ireland | | |
| Well Name | Dr. Ireland Fed Com #132H | | |
| PTD (MT + ΔTVD from SHL - BHL) | 16034 | Permit Depth (TVD) | |
| Formation at TD | TBSG | | |
| Location | | | |
| SHL | X/Y | 785847 | 468311 |
| PP/FTP | Lat/Long | 785538 | 468129 |
| BHL | X/Y | 785497 | 472842 |
| | Lat/Long | | |
| | | VS AZM | 180.50 |
| | | VS | 4533.87 |
| Rig/KB | 29 | | |
| Elevation - GL | 3389 | | |
| Elevation - KB | 3418 | | |
| Prognosis | | | |
| Example Type Log --> | | | |
| Formation Name | SSTVD* | TVD | Bearing/Hazards |
| Z (Rustler) | 2154.21 | 1263 | Water/Salt/Washout |
| Top Salt: Z (Salado) | 1800.85 | 1617 | Salt/Washout |
| Base Salt: Z (G30:CS14-CSB) | -544.18 | 3962 | Barren |
| Z(G26: Bell Canyon) | -2056.98 | 5474 | Hydrocarbon/Loss Circ |
| Z (G7: Brushy Cyn.) | -4044.08 | 7462 | Hydrocarbon/Loss Circ |
| Z(G4: BSG (CS9)) | -5358.48 | 8776 | Hydrocarbon |
| Z(L5.3: FBSC) | -6075.38 | 9493 | Hydrocarbon |
| Z (L5.1: FBSC) | -6431.81 | 9849 | Hydrocarbon |
| Z (L4.3: SBSC) | -6597.12 | 10015 | Hydrocarbon |
| Z (L4.1: SBSC) | -6962.63 | 10380 | Hydrocarbon |
| Z (L3.3: TBSC) | -7297.29 | 10715 | Hydrocarbon |
| Z (L3.1: TBSC) | -7972.33 | 11390 | Hydrocarbon |
| Z (L2: WFMP A) | -8226.6 | 11644 | Hydrocarbon |
| Z (X Sand (T)) | -8234.52 | 11652 | Hydrocarbon |
| Z (X Sand (B)) | -8274.81 | 11692 | Hydrocarbon |
| Z (Y Sand (T)) | -8325.79 | 11743 | Hydrocarbon |
| Z (Y Sand (B)) | -8343.14 | 11761 | Hydrocarbon |
| Z (WFMP A Fat) | -8392.67 | 11810 | Hydrocarbon |
| * values derived from Petrel Surfaces | | | |
| Preliminary Targeting | | | |
| Formation Name | TBSG | | |
| Top Target | 11485 | Target Reference Surface | TBSG |
| Mid Target (@ 0 VS) | 11500 | Mid Target (below ref. surface) | 110 |
| Bottom Target | 11515 | Target Window (+/- MT) | 15 |
| Reservoir Characteristics | | | |
| Rock Type | Sand | | |
| Gross Thickness | 30 | | |
| Est. res. Temp | | | |
| Est. res. pressure | | | |
| Well Design | | | |
| 1st intermediate casing | 4000 | | |
| 2nd intermediate casing | 60-70 degrees | | |
| Evaluation | | | |
| Mud logs | Yes | | |
| MWD logs | Yes | | |
| Prepared by: | Dan Brugioni | | |
| Approved by: | | | |
| Date: | 12/11/2017 ver. 1 | | |
| Date: | | | |



| | |
|--|-------|
| OPERATOR CERTIFICATION | |
| I hereby certify that the information contained herein is true and correct to the best of my knowledge and belief and that the information was obtained from a reliable source and that the information was obtained from a reliable source. | |
| Signature: | Date: |
| SURVEYOR CERTIFICATION | |
| I hereby certify that the well location shown on this plot was plotted from field notes of actual survey made by me or under my supervision, and that the survey was made in accordance with the requirements of the state of Texas. | |
| Signature: | Date: |

Drilling Operations Plan
Dr. Ireland Fed Com #132H
Matador Resources Company
Sec. 19, 23S, 35E
Lea County, NM

Surface Location: 509' FSL & 1960' FWL, Sec. 19
Bottom Hole Location: 240' FNL & 1650' FWL, Sec. 19
Elevation Above Sea Level: 3384'

Geologic Name of Surface Formation: Third Bone Spring

Type of Well: Horizontal well, No Pilot Hole, Drilled with conventional rotary tools

Proposed Drilling Depth: 16,271' MD / 11,500' TVD

Estimated Tops of Geological Markers w/ Mineral Bearing Formation:

| Formation Name | Est Top | Bearing |
|-------------------------|---------|-------------|
| Rustler | 1263 | Water |
| Salado | 1617 | Barren |
| Base of Salt | 3962 | Barren |
| Bell Canyon | 5474 | Hydrocarbon |
| Brushy Canyon | 7462 | Hydrocarbon |
| Bone Spring Lime | 8776 | Hydrocarbon |
| First Bone Spring Carb | 9493 | Hydrocarbon |
| First Bone Spring Sand | 9849 | Hydrocarbon |
| Second Bone Spring Carb | 10015 | Hydrocarbon |
| Second Bone Spring Sand | 10380 | Hydrocarbon |
| Third Bone Spring Carb | 10715 | Hydrocarbon |
| Third Bone Spring Sand | 11390 | Hydrocarbon |
| Wolfcamp A | 11644 | Hydrocarbon |

OSE Ground Water Estimated Depth: 280'

Casing Program

| Name | Hole Size | Casing Size | Wt/Grade | Thread Collar | Setting Depth | Top Cement |
|--------------|-----------|---------------|------------|---------------|---------------|------------|
| Surface | 17-1/2" | 13-3/8" (new) | 54.5# J-55 | BTC | 850 | Surface |
| Intermediate | 12-1/4" | 9-5/8" (new) | 40# J-55 | BTC | 5400 | Surface |

Drilling Operations Plan
Dr. Ireland Fed Com #132H
Matador Resources Company
Sec. 19, 23S, 35E
Lea County, NM

| | | | | | | |
|------------|--------|--------------|-----------|---------|-------|------|
| Production | 8-3/4" | 5-1/2" (new) | 20# P-110 | BTC/TXP | 16271 | 4400 |
|------------|--------|--------------|-----------|---------|-------|------|

Minimum Safety Factors: Burst: 1.125 Collapse: 1.125 Tension 1.8

Cementing Program

| Name | Type | Sacks | Yield | Weight | Blend |
|--------------|------|-------------|-------|---|--|
| Surface | Lead | 210 | 1.82 | 12.8 | Class C + Bentonite + 2% CaCL ₂ + 3% NaCl + LCM |
| | Tail | 720 | 1.38 | 14.8 | Class C + 5% NaCl + LCM |
| TOC = 0' | | 100% Excess | | Centralizers per Onshore Order 2.III.B.1f | |
| Intermediate | Lead | 1170 | 2.13 | 12.6 | Class C + Bentonite + 1% CaCL ₂ + 8% NaCl + LCM |
| | Tail | 620 | 1.38 | 14.8 | Class C + 5% NaCl + LCM |
| TOC = 0' | | 100% Excess | | 2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface | |
| Production | Lead | 760 | 2.35 | 11.5 | TXI + Fluid Loss + Dispersant + Retarder + LCM |
| | Tail | 1500 | 1.39 | 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 (500' above TOC) | |

Pressure Control Equipment:

See Exhibit E-1. A BOP consisting of 3 rams with 2 pipe rams, 1 blind ram and one annular preventer. The BOP will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A 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.

After setting surface casing and before drilling below the surface casing shoe, a minimum of a 2M BOPE system will be installed and tested to 250 psi low and 2000 psi high with the annular being tested to 250 psi low and 1000 psi high. After setting intermediate casing, a minimum of a 5M system will be installed and tested to 250 psi low and 5000 psi high with the annular being tested to 250 psi low and 2500 psi high.

The operator requests a variance to have the option of running a speed head for setting the intermediate strings. In the case of running a speed head with landing mandrel for 9-5/8" casing, a minimum of a 5M BOPE system will be installed after surface casing is set. BOP test

Drilling Operations Plan
Dr. Ireland Fed Com #132H
Matador Resources Company
Sec. 19, 23S, 35E
Lea County, NM

pressures will be 250 psi low and 5000 psi high with the annular being tested to 250 psi low and 2500 psi high before drilling below surface shoe. A diagram of the speed head is attached.

Matador Resources 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 (see Exhibit E-2). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

Proposed Mud System:

| Name | Hole Size | Mud Weight | Visc | Fluid Loss | Type Mud |
|--------------|-----------|------------|-------|------------|--------------|
| Surface | 17-1/2" | 8.30 | 28 | NC | FW Spud Mud |
| Intermediate | 12-1/4" | 10.00 | 30-32 | NC | Brine Water |
| Production | 8-3/4" | 9.00 | 30-32 | NC | FW/Cut Brine |

All necessary mud products for weight addition and fluid loss control will be on location at all times. Mud program subject to change due to hole conditions.

The Mud Monitoring System is an electronic Pason system satisfying requirements of Onshore Order 1.

Testing, Logging & Coring Program:

- Mud Logging Program: 2 man unit from 5400 – TD
- Electric Logging Program: No electric logs are planned at this time. GR will be collected through the MWD tools from Inter. Csg to TD
- No DSTs or cores are planned at this time
- CBL w/ CCL from as far as gravity will let it fall to TOC

Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S safety package on all wells, attached is an "H₂S Drilling Operations Plan". Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used

Estimated BHP: 5500
Estimated BHT: 175°

Construction and Drilling:



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

SUPO Data Report

07/19/2018

APD ID: 10400027932

Submission Date: 03/09/2018

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes

[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_34_S_20180214143930.PDF

EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_33_S_20180214143929.PDF

EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_36_S_20180214143932.PDF

EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_24_S_20180214143927.PDF

EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_25_S_20180214143928.PDF

EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_19_S_20180214155448.PDF

EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_35_S_20180214143930.PDF

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Caliche cap

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Project_Area_APD_Layout_20180226_20180226113622.jpg

New road type: LOCAL

Length: 523

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

wells that are scheduled to be drilled in the foreseeable future to Energy Transfer Partners. If changes occur that will affect the drilling and completion schedule, Matador Production Company will notify Energy Transfer Partners. Additionally, the gas produced from the well will be processed at a processing plant further downstream and, although unanticipated, any issues with downstream facilities could cause flaring at the wellhead. The actual flow of the gas will be based on compression operating parameters and gathering system pressures measured when the well starts producing.

Flowback Strategy

After the fracture treatment/completion operations (flowback), the well will be produced to temporary production tanks and the gas will be flared or vented. During flowback, the fluids and sand content will be monitored. If the produced fluids contain minimal sand, then the well will be turned to production facilities. The gas sales should start as soon as the well starts flowing through the production facilities, unless there are operational issues on the midstream system at that time. Based on current information, it is Matador's belief the system will be able to take the gas upon completion of the well.

Safety requirements during cleanout operations may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Operating a generator will only utilize a portion of the produced gas and the remainder of gas would still need to be flared.
 - Power Company has to be willing to purchase gas back and if they are willing they require a 5 year commitment to supply the agreed upon amount of power back to them. With gas decline rates and unpredictability of markets it is impossible to agree to such long term demands. If the demands are not met then operator is burdened with penalty for not delivering.
- Compressed Natural Gas – On lease
 - Compressed Natural Gas is likely to be uneconomic to operate when the gas volume declines.
- NGL Removal – On lease
 - NGL Removal requires a plant and is expensive on such a small scale rendering it uneconomic and still requires residue gas to be flared.

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

New road access erosion control: Crowned and ditched

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

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 drainages present

Road Drainage Control Structures (DCS) description: Ditches on either side of road

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:

map_of_existing_wells_section_19_20180213161634.JPG

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:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

Production Facilities map:

Location_Layout_Rig_Diagram_20180307145122.pdf

44924p01_Facility_Layout_S2_20180308_20180308131610.jpg

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: DUST CONTROL,
INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE
CASING

Describe type:

Source latitude:

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): 180000

Source volume (gal): 7560000

Water source type: RECYCLED

Source longitude:

Source volume (acre-feet): 23.200758

Water source and transportation map:

Dr_Ireland_Water_Information_20180213161731.jpg

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.):

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Caliche from BLM approved source.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill cuttings, mud, salts, and other chemicals

Amount of waste: 2000 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? NO

Description of cuttings location

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

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?

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:

Location_Layout_Rig_Diagram_20180307145300.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: DR IRELAND FEDERAL

Multiple Well Pad Number: 4

Recontouring attachment:

Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Well pad proposed disturbance
(acres): 5.72

Well pad interim reclamation (acres): 1.58

Well pad long term disturbance
(acres): 4.14

Road proposed disturbance (acres): 0

Road interim reclamation (acres): 0

Road long term disturbance (acres): 0

Powerline proposed disturbance
(acres): 0

Powerline interim reclamation (acres): 0

Powerline long term disturbance
(acres): 0

Pipeline proposed disturbance
(acres): 0

Pipeline interim reclamation (acres): 0

Pipeline long term disturbance
(acres): 0

Other proposed disturbance (acres): 0

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Total proposed disturbance: 5.72

Total interim reclamation: 1.58

Total long term disturbance: 4.14

Disturbance Comments:

Reconstruction method: Interim reclamation will be completed within 6 months of completing the last well on the pad. Disturbed areas will be contoured to match pre-construction grades. Once the last well is plugged, then the rest of the pad

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

will be similarly reclaimed within 6 months of plugging.

Topsoil redistribution: 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.

Soil treatment: None planned.

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? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

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:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

PLS pounds per acre:

Proposed seeding season:

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

Total pounds/Acre:

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: To BLM standards

Weed treatment plan attachment:

Monitoring plan description: To BLM standards

Monitoring plan attachment:

Success standards: To BLM satisfaction

Pit closure description: No pit

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:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP,STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: CARLSBAD, NM

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FED COM

Well Number: 132H

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: Onsite conducted for four slots and water tank with Vance Wolf on 10/5/2017.

Other SUPO Attachment



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

07/19/2018

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:

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