| · · | HOBBS | • | | | | MIN |
|--|---|--|--|-----------------------|---|---|
| | AUG 1 6 2018 | Carl | Sho . | | | MIN BURF |
| Form 3160-3 (March 2012) | RECEIVED | | Sbad Fiel DCD HOB OR ENT OR REENTER | | FORM A OMB No. Expires Oct | APPROVED 1004-0137 tober 31, 2014 |
| | DEPARTMENT O | STATES F THE INTERI | OR UTOD | bs | 5. Bease Serial No. | |
| A | BUREAU OF LAN PPLICATION FOR PERN | ND MANAGEMI Nit to drill | OR REENTER | | 6. If Indian, Allotee o | rTribe Name |
| la. Type of work: | ØRILL [| REENTER | | | 7 If Unit or CA Agree | ment, Name and No. |
| lb. Type of Well: | Oil Well Gas Well | uther 🔽 | Single Zone 🔲 Mult | ple Zone | 8. Lease Name and W. DRIRELAND FEDE | ell No. 322263 RAL 111H |
| 2. Name of Operator | MATADOR PRODUCTION C | OMPANY (22 | 8937) | | 9. APÍ Weit-No. | -44116 |
| 3a. Address 5400 L | BJ Freeway, Suite 1500 Dallas | TV 750 | e No. (include area code) 71-5200 | | 10. Field and Pool, or Ex BONESPRING | iploratory (2200) |
| 4. Location of Well | Report location clearly and in accord | ance with any State req | uirements.*) | $\overline{\langle}$ | 11. Sec. T. R. M. or Blk | and Survey or Area |
| | 4 / 513 FSL / 311 FWL / LAT 3 | | | | SEC 19 / T23S / R3 | 5E / NMP |
| | zone LOT 1 / 240 FNL / 330 FV nd direction from nearest town or pos | | 914 / LONG - 103,414 | 37 | 2. County or Parish | 13. State |
| Distance from prop location to nearest property or lease li (Also to nearest dri | 311 feet ne, ft. | 16. No. 557.44 | of acres in lease | 17. Spacing 157.34 | LEA 3 Unit dedicated to this we | NM |
| 8. Distance from prop | osed location* ling, completed, 30 feet | | posed Depth eet / 14642 feet | | BIA Bond No. on file 1B001079 | · · · · · · · · · · · · · · · · · · · |
| I. Elevations (Show 3384 feet | whether DF, KDB, RT, GL, etc.) | | roximate date work will st (2018 | l art* | 23. Estimated duration 25 days | |
| | // | | Attachments | | L | <u> </u> |
| he following, complete | ed in accordance with the requiremen | ts of Onshore Oil and | Gas Order No.1. must be | attached to thi | s form: | · · · · · · · · · · · · · · · · · · · |
| . A Drilling Plan. | y a registered surveyor. | | Item 20 above) | | is unless covered by an e | xisting bond on file (see |
| A Surface Use Plan SUPO must be filed | (if the location is on National For with the appropriate Forest Service) | est System Lands, th Office). | | | rmation and/or plans as n | nav be required by the |
| 25. Signature | | | ame (Printed Typed) | 05)054.444 | 1 | Date |
| ïtle / | ronic Submission) | L | ara Thompson / Ph: (\$ | 05)254-11 | 15 | 02/26/2018 |
| Assistant Proje | | | ame (Printed Typed) | 004 5050 | | Date |
| itle | nager Lands & Minerals | 0 | ody Layton / Ph: (575) ffice ARLSBAD | 234-3939 | | 07/06/2018 |
| 1.7 | oes not warrant or certify that the append | | | hts in the subj | ect lease which would en | title the applicant to |
| itle 18 U.S.C. Section 1 | 001 and Title 43 U.S.C. Section 1212, 1 is or fraudulent statements or represe | make it a crime for a intations as to any mat | ny person knowingly and tter within its jurisdiction. | willfully to m | ake to any department or | agency of the United |
| (Continued on pa | nge 2) DS/16/18 | | | - | *(Instru | uctions on page 2) |
| - | | DOVEN N | TITH CONDIT | IONS | 55/10/ | it d |
| | Al | PROVED T | te: 07/06/2018 | | V | |

| V | 12 | , y |
|----|----------|-----|
| S. | 12 60 | y/ |

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.

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.

NOTIČES

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 31,60

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.

(Continued on page 3)

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: LOT 4 / 513 FSL / 311 FWL / TWSP: 23S / RANGE: 35E / SECTION: 19 / LAT: 32.284245 / LONG: -103.4141952 (TVD: 0 feet, MD: 0 feet) PPP: LOT 4 / 330 FSL / 330 FWL / TWSP: 23S / RANGE: 35E / SECTION: 19 / LAT: 32.2837424 / LONG: -103.4141345 (TVD: 9868 feet, MD: 10250 feet) BHL: LOT 1 / 240 FNL / 330 FWL / TWSP: 23S / RANGE: 35E / SECTION: 19 / LAT: 32.2966914 / LONG: -103.414137 (TVD: 9868 feet, MD: 14642 feet)

BLM Point of Contact

Name: Judith Yeager Title: Legal Instruments Examiner Phone: 5752345936 Email: jyeager@blm.gov

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

Submission Date: 02/26/2018

Highlighted data rollects the mest meant changes

07/18/2018

App...ation Data Report

Show Final Text

APD ID: 10400026077

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FEDERAL

Well Type: OIL WELL

Well Number: 111H **Well Work Type:** Drill

Section 1 - General 10400026077 APD ID: Tie to previous NOS? Submission Date: 02/26/2018 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 Allotted? Surface access agreement in place? **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 | Mater 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 FEDERAL | Well Number: 111H | 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

TION COMPANY

Well Name: DR IRELAND FEDERAL

Well Number: 111H

| Describe oth | ner minerals: | | | | |
|--------------|-----------------------------|----------------|--------------------------------------|---------|--------------------------|
| Is the propo | sed well in a Helium produc | ction area? N | Use Existing Well Pad? | NO | New surface disturbance? |
| Type of Well | I Pad: MULTIPLE WELL | | Multiple Well Pad Name | : DR | Number: 1 |
| Well Class: | HORIZONTAL | | IRELAND FEDERAL Number of Legs: 1 | | |
| Well Work T | ype: Drill | | | | |
| Well Type: C | DIL WELL | | | | |
| Describe We | ell Type: | | | | |
| Well sub-Ty | pe: APPRAISAL | | | | |
| Describe su | b-type: | | | | |
| Distance to | town: | Distance to ne | arest well: 30 FT | Distanc | e to lease line: 311 FT |
| Reservoir w | ell spacing assigned acres | Measurement: | 157.34 Acres | | |
| Well plat: | 1Mile_Radius_Map_201802 | 14142439.docx | (| | |
| | BO_DR_IRELAND_FED_CO | OM_SLOT_1_S | URFACE_PAD_SITE_S_ | 2018021 | 4142722.pdf |
| | CD_DR_IRELAND_FED_CO | OM_SLOT_1_S | URFACE_PAD_PRO_S_ | 2018021 | 4142722.pdf |
| | DrIrelandFederal111H_sign | ed_201805081 | 53800.pdf | | |
| Well work st | art Date: 12/01/2018 | | Duration: 25 DAYS | | |
| Secti | on 3 - Well Location | Гable | | | |

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 | DVT |
|-----------|---------|--------------|---------|--------------|------|-------|---------|-------------------|---------------|---------------|--------|-------------|-------------|------------|----------------|-----------|-----|-----|
| SHL | 513 | FSL | 311 | FWL | 235 | 35E | 19 | Lot | 32.28424 5 | - 103.4141 | LEA | NEW MEXI | NEW MEXI | F | NMNM 113422 | | 0 | 0 |
| Leg #1 | | | | | | | | 4 | 5 | 952 | | CO | CO | | 113422 | 4 | | |
| KOP | 513 | FSL | 311 | FWL | 23S | 35E | 19 | Lot | 32.28424 | - | LEA | NEW | NEW | F | NMNM | 243 | 950 | 950 |
| Leg | | | | | | | | 4 | 5 | 103.4141 | | 1 | MEXI | | 113422 | 4 | | |
| #1 | | | | | | | | | | 952 | | co | со | | | | | |

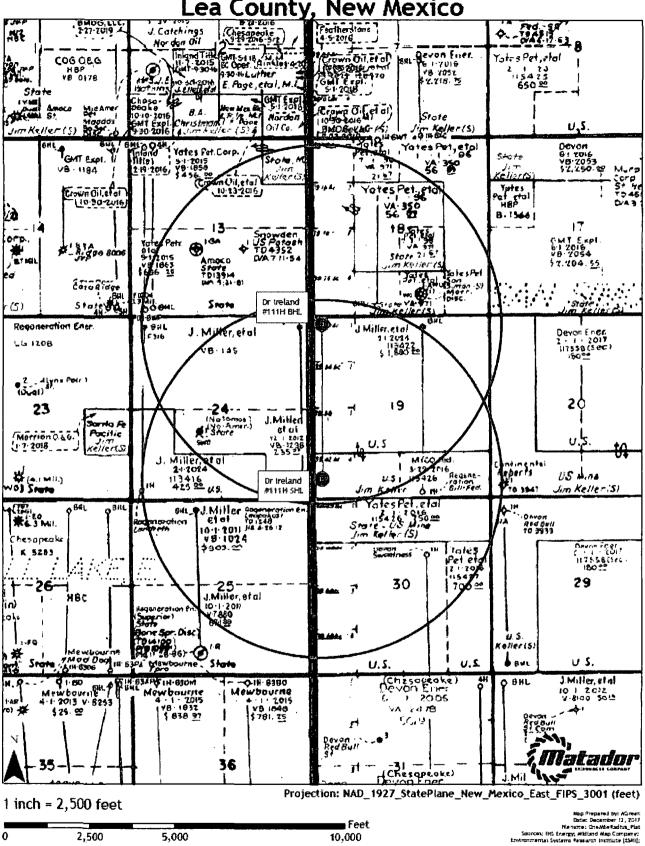
Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FEDERAL

Well Number: 111H

.

| | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | QM | TVD |
|------|---------|--------------|---------|--------------|------|-------|---------|-------------------|----------|-----------|--------|-------|----------|------------|--------------|-----------|-----|-----|
| PPP | 330 | FSL | 330 | FWL | 23S | 35E | 19 | Lot | 32.28374 | - | LEA | NEW | NEW | F | NMNM | - | 102 | 986 |
| Leg | | | | | | | | 4 | 24 | 103.4141 | | MEXI | | | 113422 | 648 | 50 | 8 |
| #1 | | | | | | | | | | 345 | | co | со | | | 4 | | |
| EXIT | 330 | FNL | 330 | FWL | 23S | 35E | 19 | Lot | 32.29644 | - | LEA | NEW | NEW | F | NMNM | - | 145 | 986 |
| Leg | | | | | | | | 1 | 4 | 103.4141 | | MEXI | MEXI | | 113422 | 648 | 52 | 8 |
| #1 | | | | | | | | | | 369 | | co | со | | | 4 | | 1 |
| BHL | 240 | FNL | 330 | FWL | 23S | 35E | 19 | Lot | 32.29669 | - | LEA | NEW | NEW | F | NMNM | - | 146 | 986 |
| Leg | | | | | | | | 1 | 14 | 103.4141 | | MEXI | MEXI | | 113422 | 648 | 42 | 8 |
| #1 | | | | | | | | | | 37 | | co | со | | | 4 | | |



10,000

n

2,500

5,000

Lea County, New Mexico

WAFMSS

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

APD ID: 10400026077

Submission Date: 02/26/2018

Highlightod-data wiking the most wight changes

Show Final Text

07/18/2018

Drillin, Plan Data Report

Well Name: DR IRELAND FEDERAL

Well Number: 111H

Well Type: OIL WELL

Well Work Type: Drill

Type. Dim

Section 1 - Geologic Formations

Operator Name: MATADOR PRODUCTION COMPANY

| Formation | | | True Vertical | Measured | · · · · | | Producing |
|-----------|------------------|-----------|---------------|----------|-----------------|-------------------|-----------|
| : ID | Formation Name | Elevation | Depth | Depth | Lithologies | Mineral Resources | Formation |
| 1 | RUSTLER | 3384 | 1117 | 1117 | | USEABLE WATER | No |
| 2 | SALADO | 1931 | 1453 | 1453 | , 31 | NONE | No |
| 3 | BASE OF SALT | -543 | 3927 | 3927 | <u></u> | NONE | No |
| 4 | BELL CANYON | -2021 | 5405 | 5405 | | NATURAL GAS,OIL | No |
| 5 | BRUSHY CANYON | -4039 | 7423 | 7423 | | NATURAL GAS,OIL | No |
| 6 | BONE SPRING LIME | -5361 | 8745 | 8745 | | NATURAL GAS,OIL | No |
| 7 | BONE SPRING 1ST | -6093 | 9477 | 9477 | : | NATURAL GAS,OIL | No |
| 8 | BONE SPRING 2ND | -6650 | 10034 | 10034 | | 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. **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 3000 psi high with the annular being tested to 250 psi low and 2500 psi high.

Well Name: DR IRELAND FEDERAL

Well Number: 111H

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Choke Diagram Attachment:

Choke_Manifold_20180122155035.pdf

BOP Diagram Attachment:

BOP_297_001_20180122155024.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 | | OTHER - BTC | 1.12 5 | 1.12 5 | BUOY | 1.8 | BUOY | 1.8 |
| | INTERMED IATE | 12.2 5 | 9.625 | NEW | API | N . | 0 | 5400 | 0 | 5384 | | | 5400 | J- 55 | 40 | OTHER - BTC | 1.12 5 | 1.12 5 | BUOY | 1.8 | BUOY | 1.8 |
| | PRODUCTI ON | 8.75 | 5.5 | NEW | NON API | N | 4400 | 14642 | 4388 | 9868 | | | 10242 | P- 110 | | OTHER - BTC/TXP | 1.12 5 | 1.12 5 | BUOY | 1.8 | BUOY | 1.8 |

Casing Attachments

Casing ID: 1

String Type:SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLM_Casing_Design_Assumptions_3_string_20180213122944.pdf

| Operator Name: MATADOR PRODUC |
|-------------------------------|
| Well Name: DR IRELAND FEDERAL |

Well Number: 111H

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_20180213122951.pdf

Casing ID: 3 String Type: PRODUCTION

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

| Section | 4 - Ce | emen | t | | | | | | | | |
|--------------|-----------|---------------------|--------|-----------|--------------|-------|---------|------------|---------|-------------|---|
| 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 | 580 | 2.35 | 11.5 | 1363 | 35 | ТХІ | Fluid Loss + Dispersant + Retarder + LCM |
| SURFACE | Tail | | 0 | 850 | 1500 | 1.39 | 13.2 | 2085 | 35 | ТХІ | Fluid Loss + Dispersant + Retarder + 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 | 600 | 1.38 | 11.5 | 828 | 100 | Class C | 5% NaCl + LCM |
| PRODUCTION | Lead | | 4600 | 1464 2 | 210 | 1.82 | 12.8 | 382.2 | 100 | Class C | Bentonite + 2% CaCL2 + 3% NaCl + LCM |

Operator Name: MATADOR PROD

JN COMPANY

Well Number: 111H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|---------------|
| PRODUCTION | Tail | | 4600 | 1464 2 | 720 | 1.38 | 14.8 | 993.6 | 100 | Class C | 5% NaCl + LCM |

Section 5 - Circulating Medium

Circulating Medium Table

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.

| Top Depth | Bottom Depth | Mud Type | Min Weight (Ibs/gal) | Max Weight (Ibs/gal) | Density (lbs/cu ft) | Gel Strength (Ibs/100 sqft) | Hd | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|--------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 0 | 850 | SPUD MUD | 8.3 | 8.3 | | | | | | | |
| 0 | 5385 | SALT SATURATED | 10 | 10 | | | | | | | |
| 4388 | 9868 | OTHER : FW/ Cut Brine | 9 | 9 | | | | | | | |

Operator Name: MATADOR PRODUC

Well Name: DR IRELAND FEDERAL

Well Number: 111H

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: 4500 Anticipated Surface Pressure: 2329.04

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Matador_Hydrogen_Sulfide_Drilling_Leslie__024_20180214143236.docx

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

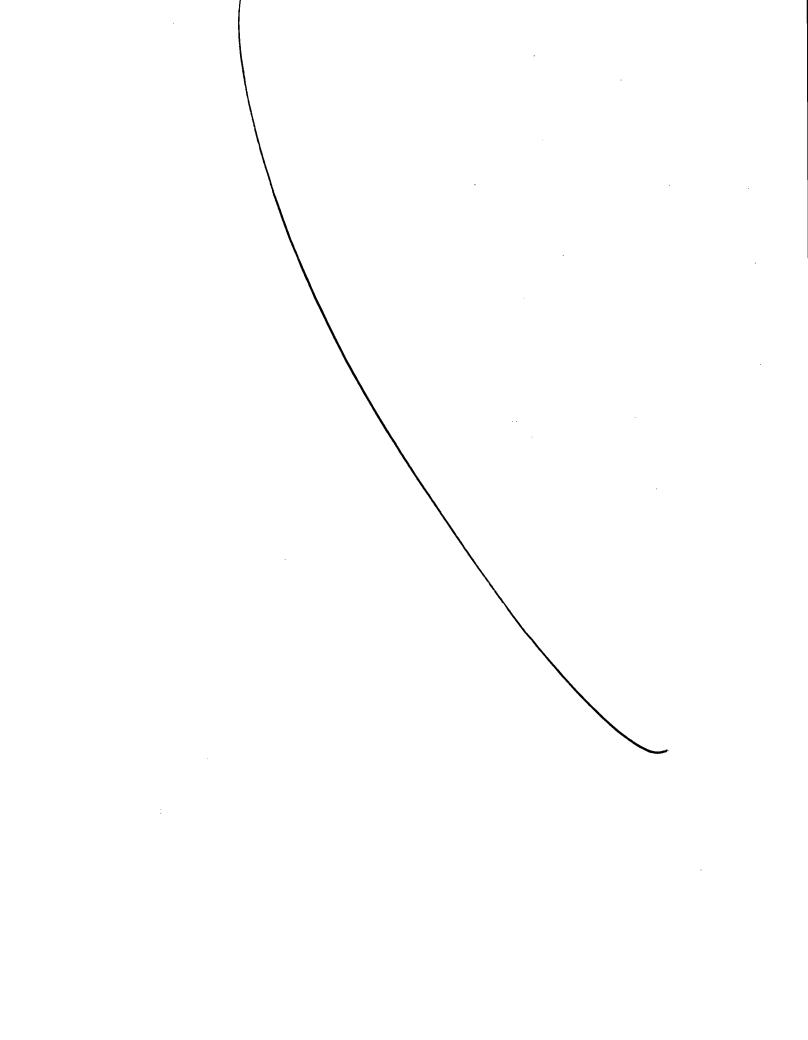
Dr._Ireland_Fed_Com__111H___Well_Plan_v1_20180213132634.pdf

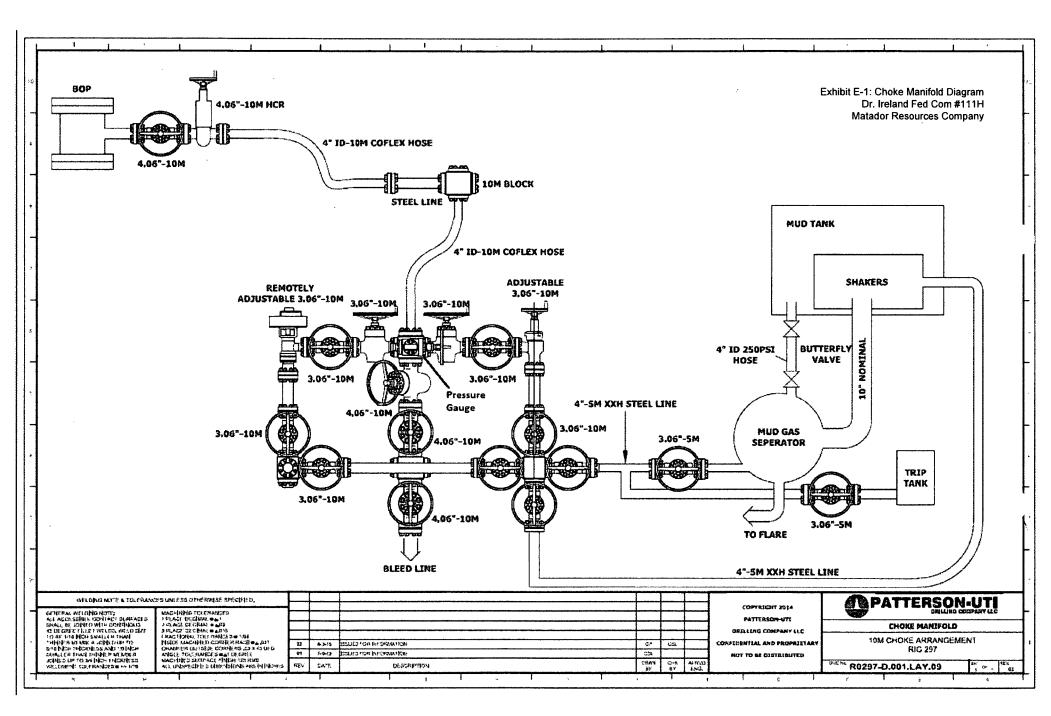
Other proposed operations facets description:

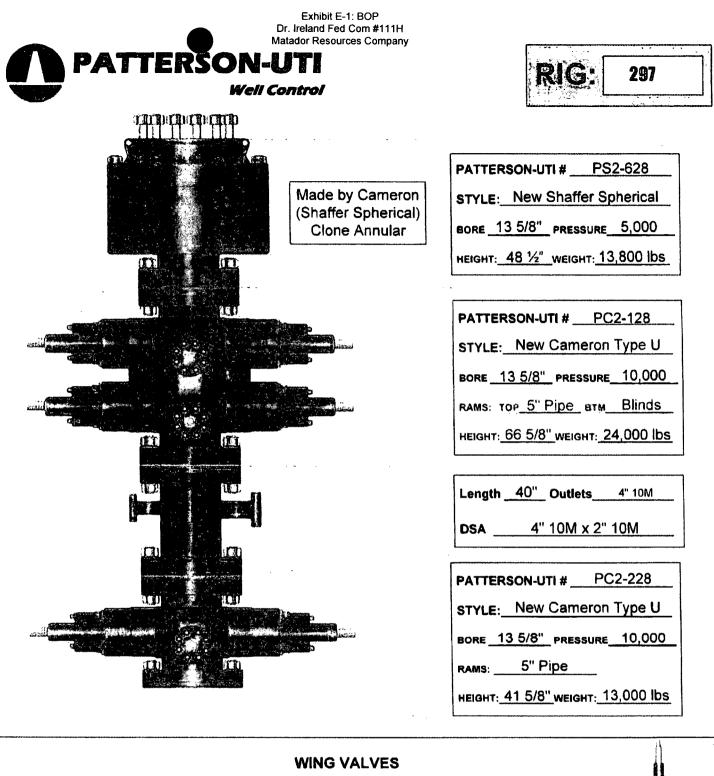
Other proposed operations facets attachment:

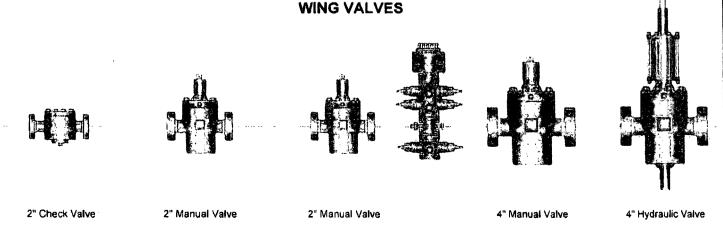
3_String_Speed_Head_20180213132735.pdf 297Co_Flex_Certs__Dr._Ireland_Fed_Com__111H_20180213132737.pdf Close_Loop_System_20180213132738.docx Dr._Ireland_Fed_Com__111H_MTDR_Drill_Plan_20180213132739.docx Dr_111H_Geoprog_V1_20180214143507.xlsx

Other Variance attachment:









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 | | |
|---|-------------------------|---------------------------------------|--------------------------|---|--------------------|
| | | GEOMET | ſRY | | |
| Nominal OD | 5.500 in. | Nominal Weight | 20.00 lbs/ft | Standard Drift Diameter | 4.653 in. |
| Nominal ID | 4.778 in. | Wall Thickness | 0.361 in. | Special Drift Diameter | N/A |
| Plain End Weight | 19.83 lbs/ft | | | | |
| | | PERFORM | ANCE | | · |
| Body Yield Strength | . 641 x 1000 lbs | Internal Yield | 12630 psi | SMYS | 110000 psi |
| Collapse | 12100 psi | | | | |
| | TE | NARISXP® BTC CO | NNECTION D | ΑΤΑ | |
| | | GEOMET | rry | | |
| Connection OD | 6.100 in. | Coupling Length | 9.450 in. | Connection ID | 4.766 in. |
| Critical Section Area | 5.828 sq. in. | Threads per in. | 5.00 | Make-Up Loss | 4.204 in. |
| | | PERFORM | ANCE | | |
| Tension Efficiency | 100 % | Joint Yield Strength | 641 × 1000 lbs | Internal Pressure Capacity ^(<u>1</u>) | 12630 psi |
| Structural Compression Efficiency | 100 % | Structural Compression Strength | 641 x 1000 Ibs | Structural Bending ^(<u>2</u>) | 92 °/100 ft |
| External Pressure Capacity | 12100 psi | | | | |
| | E | STIMATED MAKE-L | IP TORQUES | (3) | |
| Minimum | 11270 ft-lbs | Optimum | 12520 ft-lbs | Maximum | 13770 ft-lbs |
| | | OPERATIONAL LI | AIT TORQUES | 5 | |
| Operating Torque | 21500 ft-lbs | Yield Torque | 23900 ft-lbs | | |
| | | BLANKING DI | TENSIONS | | |
| | | Blanking Din | nensions | | |

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

DS-TenarisHydril TenarisXP BTC-5.500-20.000-.

section 10.3 API 5Cp , 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 <u>licensees@oilfield.tenaris.com</u>. 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: DFc=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: DFt=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: DFc=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: DFt=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: DFc=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: DFt=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).

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Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DFc=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: DFt=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: DFc=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: DFt=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: DFc=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: DFt=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).

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Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DFc=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: DFt=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: DFc=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: DFt=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: DFc=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: DFt=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).

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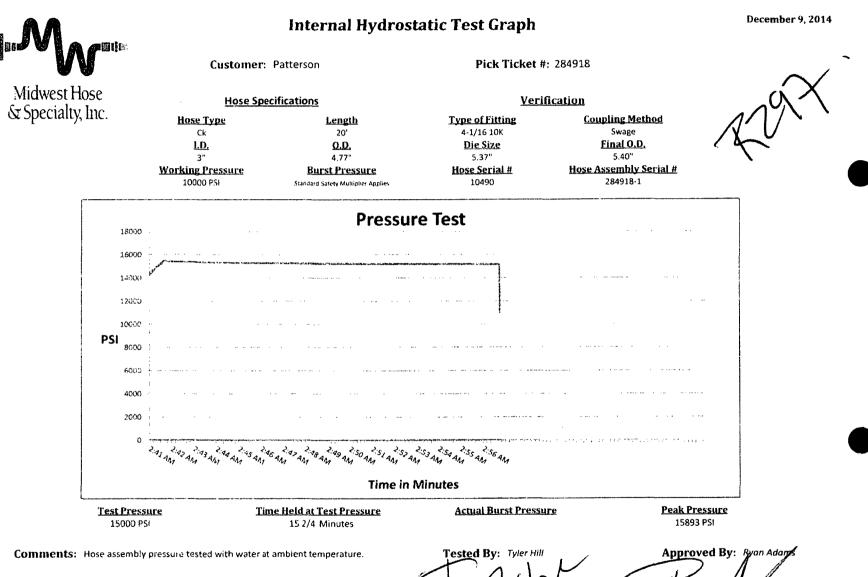
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|---|---------------------------------|----------------------|
| | fidwest Hose Specialty, Inc. | |
| | | |
| Certifica | te of Conformity | |
| Customer: PATTERSON B&E | Customer P.O.# 260471 | |
| Sales Order # 236404 | Date Assembled: 12/8/2014 | |
| Spi | ecifications | |
| 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 supplies to the requirements of the purchase order and consections of the supplier: | | to be true according |
| Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129 | | |
| 3312 S I-35 Service Rd | | |
| 3312 S I-35 Service Rd Oklahoma City, OK 73129 | Date | |

Exhibit E-2: Co-Flex Certifications Dr. Ireland Fed Com #111H Matador Resources Company



Approved By: Tyler Hill Approved By: Ryan Adams

| Inte | | vest Hose cialty, Inc. | |
|----------------------------------|---|--------------------------------|--------------|
| Inte | | | |
| Inte | | | |
| Inte | | | |
| | ernal Hydroste | atic Test Certificate | |
| General Info | | Hose Specifi | cations |
| ustomer | PATTERSON B&E | Hose Assembly Type | Choke & Kill |
| IWH Sales Representative | | Certification | API 7K |
| ate Assembled | 12/8/2014 | Hose Grade | MUD |
| ocation Assembled | окс | Hose Working Pressure | 10000 |
| ales Order # | 236404 | Hose Lot # and Date Code | 10490-01/13 |
| ustomer Purchase Order # | 260471 | Hose I.D. (Inches) | 3" |
| ssembly Serial # (Pick Ticket #) | 287918-1 | Hose O.D. (Inches) | 5.30" |
| ose Assembly Length | 20' | Armor (yes/no) | YES |
| | Fit | tings | |
| End A | | End B | |
| em (Part and Revision #) | R3.0X64WB | Stem (Part and Revision #) | R3.0X64WB |
| em (Heat #) | A141420 | Stem (Heot #) | A141420 |
| errule (Part and Revision #) | RF3.0 | Ferrule (Part and Revision #) | RF3.0 |
| e rrule (Heat #) | 37DA5631 | Ferrule (Heat #) | 37DA5631 |
| onnection (Part #) | 4 1/16 10K | Connection (Port #) | 4 1/16 10K |
| onnection (Heat #) | V3579 | Connection (Heat #) | V3579 |
| JIIIELUOII (Heal #) | NAL AND | | |
| ies Used | 5.3 | 7 Dies Used | 5.3 |
| | | 7 Dies Used st Requirements | 5.3 |
| | | | |

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| | » <i>\ Ai -}</i> | VV | | |
|--|---------------------|---------------------------------------|----------------------|--|
| | | est Hose ialty, Inc. | | |
| | Certificate c | of Conformity | | |
| Customer: PATTERSON B&E | | Customer P.O.# 260471 | | |
| Sales Order # 236404 | | Date Assembled: 12/8/2014 | | |
| | Specif | ications | | |
| Hose Assembly Type: C | hoke & Kill | | | |
| | 87918-1 | Hose Lot # and Date Code | 10490-01/13 | |
| | 0000 | Test Pressure (psi) | 15000 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| We hereby certify that the above m to the requirements of the purchas | | | to be true according | |
| | | · · · · · · · · · · · · · · · · · · · | | |
| Supplier: | | | | |
| Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd | | | | |
| Oklahoma City, OK 73129 | | | | |
| Comments: | | | | |
| | | Date | | |
| Approved Bv | | Date 12/9/2014 | | |
| Approved By Han Al | 1 | 12/9/201 | .4 | |

Exhibit E-2: Co-Flex Certifications Dr. Ireland Fed Com #111H Matador Resources Company



Internal Hydrostatic Test Graph

December 9, 2014

Customer: Patterson Pick Ticket #: 284918 Midwest Hose **Hose Specifications** Verification & Specialty, Inc. Hose Type **Type of Fitting Coupling Method** Length Mud 70' 4 1/16 10K Swage 1.D. <u>O.D.</u> Final O.D. Die Size 3" 4.79" 5.37" 5.37" Working Pressure **Burst Pressure** Hose Assembly Serial # Hose Serial # 10000 PSI 284918-3 10490 Standard Safery Multiplier Applies **Pressure Test** 18000 16000 14000 12000 10000 52 8000 5000 4000 2000 Ø 111.1754 2:38 PM 2.30 2.40 2.41 PM 2.42 PM 3 PM 4 PM 2.45 PM 6 PM 2.45 PM 5 PM 2.40 PM 2.40 PM 2.50 PM 5 PM 2.52 PM 2.53 PM 2.55 PM 2.5 **Time in Minutes Test Pressure Time Held at Test Pressure Actual Burst Pressure** Peak Pressure 15000 PSI 15410 PSI 16 3/4 Minutes



Aler Hill Approved By: Ryan Agams **Tested By:**



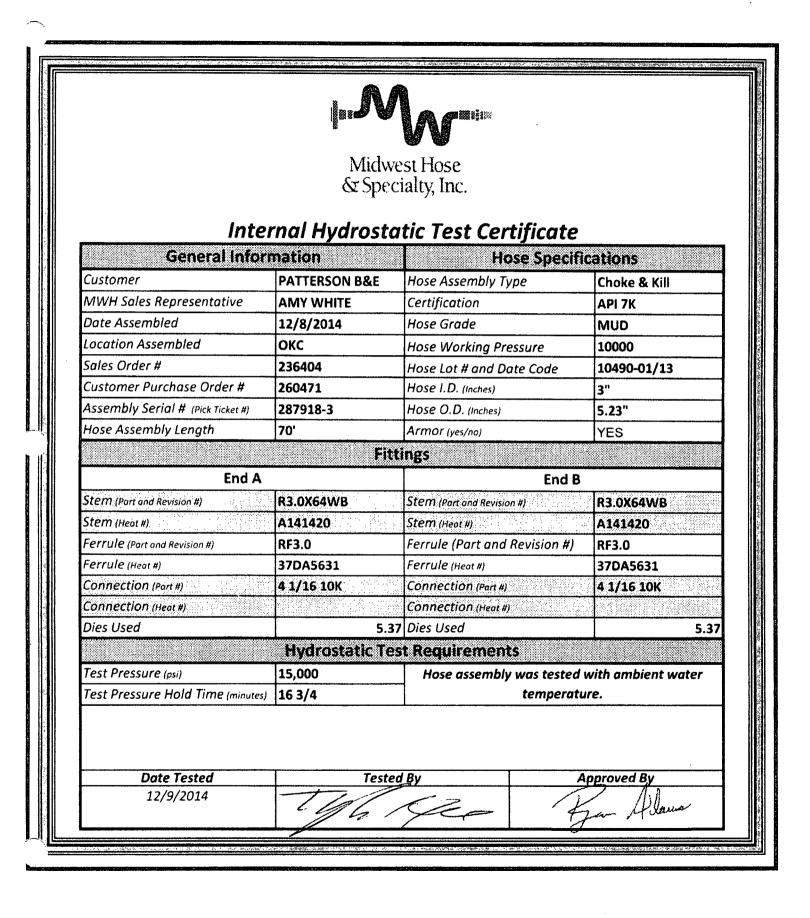


Exhibit E-2: Co-Flex Certifications Dr. Ireland Fed Com #111H Matador Resources Company

| | Midwest Hose & Specialty, Inc. |
|--|---|
| | Cospecially, Inc. |
| Certi | ficate of Conformity |
| Customer: PATTERSON B&E | Customer P.O.# 260471 |
| Sales Order # 236404 | Date Assembled: 12/8/2014 |
| | Specifications |
| | |
| Hose Assembly Type: Choke & | |
| Assembly Serial # 287918-3 | Hose Lot # and Date Code 10490-01/13 |
| Hose Working Pressure (psi) 10000 | Test Pressure (psi) 15000 |
| | supplied for the referenced purchase order to be true according |
| to the requirements of the purchase order Supplier: Midwest Hose & Specialty, Inc. | ana current inaustry stanaaras. |
| to the requirements of the purchase order Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129 | ana current inaustry stanaaras. |
| to the requirements of the purchase order Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd | ana current inaustry stanaaras. |
| to the requirements of the purchase order Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129 | Date |

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.

Drilling Operations Plan Dr. Ireland Fed Com #111H Matador Resources Company Sec. 19, 23S, 35E Lea County, NM Surface Location: 513' FSL & 311' FWL, Sec. 19 Bottom Hole Location: 240' FNL & 330' FWL, Sec. 19 Elevation Above Sea Level: 3384'

Geologic Name of Surface Formation: First Bone Spring

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

Proposed Drilling Depth: 14,642' MD / 9868' TVD

Estimated Tops of Geological Markers w/ Mineral Bearing Formation:

| | Est | |
|----------------------------|-------|-----------------|
| Formation Name | Тор | Bearing |
| Rustler | 1117 | Water |
| Salado | 1453 | Barren |
| Base of Salt | 3927 | Barren |
| Bell Canyon | 5405 | Hydrocarbo n |
| Brushy Canyon | 7423 | Hydrocarbo n |
| Bone Spring Lime | 8745 | Hydrocarbo n |
| First Bone Spring Carb | 9477 | Hydrocarbo n |
| First Bone Spring Sand | 9848 | Hydrocarbo n |
| Second Bone Spring Carb | 10034 | Hydrocarbo n |

OSE Ground Water Estimated Depth: 280'

Casing Program

| Name | Hole Size | Casing Size | Wt/Grad e | Thread Collar | Setting Depth | Top Cement |
|-------------|--------------|--------------|--------------|------------------|------------------|---------------|
| | | 13-3/8" | 54.5# J- | | | |
| Surface | 17-1/2" | (new) | 55 | BTC | 850 | Surface |
| Intermediat | | | | | | |
| e | 12-1/4" | 9-5/8" (new) | 40# J-55 | BTC | 5400 | Surface |
| | | | 20# P- | | | |
| Production | 8-3/4" | 5-1/2" (new) | 110 | BTC/TXP | 14642 | 4400 |

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

Drilling Operations Plan Dr. Ireland Fed Com #111H Matador Resources Company Sec. 19, 23S, 35E Lea County, NM

| Name | Туре | Sacks | Yield | Weight | Blend |
|------------------|------|-------|----------|--------|---|
| Surface | Lead | 210 | 1.82 | 12.8 | Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM |
| | Tail | 720 | 1.38 | 14.8 | Class C + 5% NaCl + LCM |
| TOC = | 0' | 1(| 00% Exce | ss | Centralizers per Onshore Order 2.III.B.1f |
| Intermediat e | Lead | 1170 | 2.13 | 12.6 | Class C + Bentonite + 1% CaCL2 + 8% NaCl + LCM |
| | Tail | 620 | 1.38 | 14.8 | Class C + 5% NaCl + LCM |
| TOC = | 0' | 1(| 0% Exce | SS | 2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface |
| Production | Lead | 580 | 2.35 | 11.5 | TXI + Fluid Loss + Dispersant + Retarder + LCM |
| | Tail | 1500 | 1.39 | 13.2 | TXI + Fluid Loss + Dispersant + Retarder + LCM |
| TOC = 46 | 500' | 3 | 5% Exces | S | 2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (500' above TOC) |

Cementing Program

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 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.

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. BOP test pressures will be 250 psi low and 3000 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.

Drilling Operations Plan Dr. Ireland Fed Com #111H Matador Resources Company Sec. 19, 23S, 35E Lea County, NM

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 |
| Intermediat e | 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 H_2S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an " H_2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H_2S safety package on all wells, attached is an " H_2S 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: 4500 Estimated BHT: 150°

Construction and Drilling:

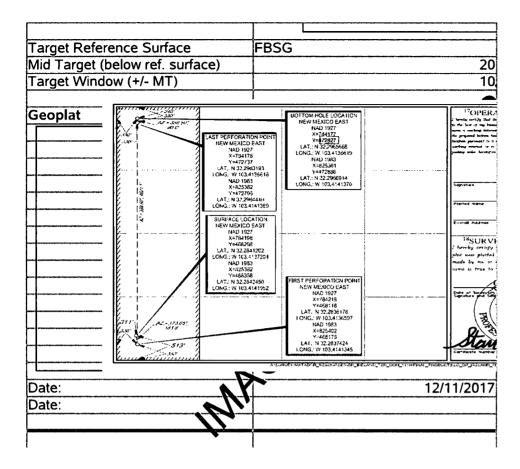
Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 25 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities

| | MATAD | OR PRODUC |
|--|---|---|
| | | |
| General | | |
| | Operator | MRC |
| | Lease | Dr. Ireland |
| | Well Name | Dr. Ireland Fed (|
| | PTD (MT + Δ TVD from SHL - BHL) | |
| | Formation at TD | FBSG |
| | | |
| Location | | |
| | SHL | X/Y |
| ······································ | | Lat/Long |
| | PP/FTP | X/Y |
| | | Lat/Long |
| | BHL | X/Y |
| | | Lat/Long |
| | | |
| | | |
| N: | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| Rig/KB Elevation - GL | 2204 | 29 |
| levation - KB | 3384 | |
| ievalion - ND | 3413 | |
| Prognosis | | |
| Toghosis | | |
| ormation Name | SSTVD* | TVD |
| Z (Rustler) | | |
| Top Salt: Z (Salado) | | |
| Base Salt: Z (G30:CS14-CSB) | | |
| Z(G26: Bell Canyon) | | |
| Z (G7: Brushy Cyn.) | -4010.57 | 7423 |
| Z(G4: BSGL (CS9)) | -5332.28 | |
| Z(L5.3: FBSC) | | |
| Z (L5.1: FBSG) | | |
| Z (L4.3: SBSC) | -6621.75 | |
| Z (L4.1: SBSG) | | |
| Z (L3.3: TBSC) | | 10707 |
| Z (L3.1: TBSG) | | |
| Z (L2: WFMP A) | | 11621 |
| Z (X Sand (T)) | | |
| Z (X Sand (B)) | -8254.12 | 11667 |
| Z (Y Sand (T)) | -8299.91 | 11712 |
| Z (Y Sand (B)) | | |
| Z (WFMP A Fat) | | |
| · · · · · · · · · · · · · · · · · · · | * values derived from Petre | l Surfaces |
| Preliminary Targeting | | |
| | | |
| ormation Name | FBSG | |

| Top Target | 9858 | |
|---------------------------|--------------------|--|
| Mid Target (@ 0 VS) | 9868 | |
| Bottom Target | 9878 | dan and a second s |
| Reservoir Characteristics | | |
| | Rock Type | Sand |
| | Gross Thickness | 20' |
| | 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: | | |
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| Hydrocarbon/Loss Circ | 04 B5GL (CS9) (CS9 |
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U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Submission Date: 02/26/2018

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APD ID: 10400026077

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FEDERAL

Well Type: OIL WELL

Well Number: 111H Well Work Type: Drill Highlighted data Edosia da most Lacari elemente

SUPO Data Report

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

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_34_S_20180214143930.PDF EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_36_S_20180214143932.PDF EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_33_S_20180214143929.PDF EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_35_S_20180214143930.PDF EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_35_S_20180214143930.PDF EP_DR_IRELAND_FED_COM_ROAD_EASEMENT_35_S_20180214155448.PDF Project_Area_APD_Layout_20180226_20180226113553.jpg **Existing Road Purpose:** ACCESS,FLUID TRANSPORT **Ro**

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

Feet

New road type: LOCAL

Length: 458.23

Max slope (%): 0

Width (ft.): 30 Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

Operator Name: MATADOR PRODe _ ION COMPANY

Well Name: DR IRELAND FEDERAL

Well Number: 111H

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:

FION COMPANY Operator Name: MATADOR PRC. Well Name: DR IRELAND FEDERAL Well Number: 111H **Production Facilities map:** Location Layout 20180226171042.pdf 44924p01_Facility_Layout_S1_20180226_20180226171232.jpg Section 5 - Location and Types of Water Supply Water Source Table Water source use type: DUST CONTROL, Water source type: RECYCLED INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING **Describe type:** Source longitude: 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 (acre-feet): 23.200758 Source volume (gal): 7560000 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 PROD. _ . ION COMPANY

Well Name: DR IRELAND FEDERAL

Well Number: 111H

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 Disposal location ownership: PRIVATE

FACILITY 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

Well Name: DR IRELAND FEDERAL

Well Number: 111H

Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

Cuttings area depth (n.)

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_20180214145129.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: 1

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): 0.32 | Road interim reclamation (acres): 0.17 | Road long term disturbance (acres): |
| Powerline proposed disturbance | Powerline interim reclamation (acres): | Powerline long term disturbance |
| (acres): 0 Pipeline proposed disturbance | Pipeline interim reclamation (acres): 0 | (acres): 0 Pipeline long term disturbance |
| (acres): 0 Other proposed disturbance (acres): (| Other interim reclamation (acres): 0 | (acres): 0 Other long term disturbance (acres): 0 |
| Total proposed disturbance: 6.04 | Total interim reclamation: 1.75 | Total long term disturbance: 4.29 |

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

Well Name: DR IRELAND FEDERAL

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 | ļ |
|------|-------|---|
| | | |

 Seed type:
 Seed source:

 Seed name:
 Source name:

 Source name:
 Source address:

 Source phone:
 Seed cultivar:

 Seed use location:
 Seed cultivar:

| <i>(</i> | |
|----------------------------|--------------|
| Operator Name: MATADOR PRC | (ION COMPANY |

Well Number: 111H

Well Name: DR IRELAND FEDERAL

PLS pounds per acre:

 \checkmark

Proposed seeding season:

| Seed Summary | Total pounds/Acre: |
|-----------------------|--------------------|
| Seed Type Pounds/Acre | |

Seed reclamation attachment:

| Operator Contact/Responsible Offic | ial 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 | 3 |
| 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: Operator Name: MATADOR PRODUCTION COMPANY Well Name: DR IRELAND FEDERAL

Well Number: 111H

| 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 PRC Well Name: DR IRELAND FEDERAL | , FION COMPANY | Well Number: 111H | |
|---|----------------|-----------------------|--|
| 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: | |
| | | | |

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| Section | 12 - Oth | er Inforn | nation |
| | • <u> </u> | | |

Right of Way needed? NO ROW Type(s):

Use APD as ROW?

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



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



Section 1 - General

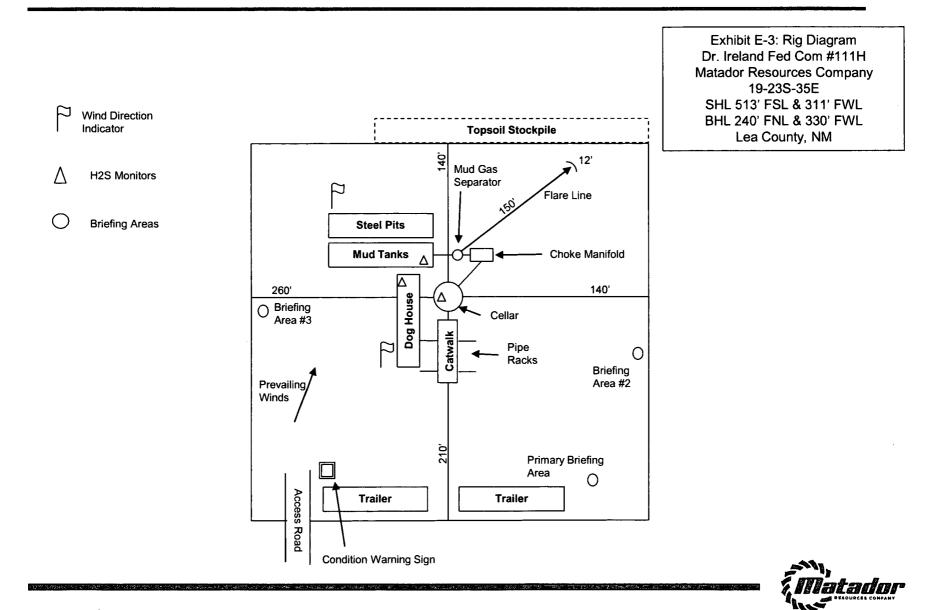
Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO **Produced Water Disposal (PWD) Location: PWD surface owner:** 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: Decribe 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:

PWD disturbance (acres):

Rig Diagram



Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe 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:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type: Injection well number: Assigned 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:

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:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Injection well name:

Injection well API number:

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PWD disturbance (acres):

PWD disturbance (acres):

WAFMSS

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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?

Bc...d Info Data Report

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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: