HOBBS OC

Form 3160-3 (March 2012)

Carlsbad Field Office
OCD Hobbs 5. Lease St.

FORM APPROVED
OMB No. 1004-0127
ixpires 0-22 OMB No. 1004-0137 Expires October 31, 2014

TENENTED STATES

THE INTERIOR

BUREAU OF LAND MANA	AGEMENT	NMNM	115426	_
APPLICATION FOR PERMIT TO I		6. If I	ndian, Allotee or Tr	ibe Name
Ia. Type of work: ✓ DRILL REENTE	R		nit or CA Agreemen	~7 /·
ib. Type of Well: Oil Well Gas Well Other	Single Zone Multip		se Name and Well N ELAND REDERA	
2. Name of Operator MATADOR PRODUCTION COMPANY	(228977)		Well-No.	45126
3a. Address 5400 LBJ Freeway, Suite 1500 Dallas TX 7524	3b. Phone No. (include area code) (972)371-5200 .	BONE	d and Pool, or Explor	(2200)
4. Location of Well (Report location clearly and in accordance with any	State requirements.*)	11. Sec.,	T. R. M. or Blk. and	d Survey or Area
At surface SESE / 257 FSL / 429 FEL / LAT 32.2835923 At proposed prod. zone NENE / 240 FNL / 990 FEL / LAT 32			9 / T23S / R35E /	NMP
14. Distance in miles and direction from nearest town or post office*	2.2507 1107 20110 1103201-0		nty or Parish	13. State NM
15. Distance from proposed* location to nearest 570 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease 279.45	17. Spacing Unit dec 159.8	licated to this well	
18. Distance from proposed location* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft.	19: Proposed Depth 11500 feet / 16263 feet	20. BLM/BIA Bond FED: NMB0010		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3393 feet	22. Approximate date work will star 12/01/2018	t* 23. Est 25 da	imated duration ys	
	24. Attachments			
The following, completed in accordance with the requirements of Onshore	Oil and Gas Order No.1, must be at	tached to this form:		
Well plat certified by a registered surveyor. A Drilling Plan.	Item 20 above).	e operations unless	covered by an existi	ing bond on file (see
3. A Surface Use Plan (if the location is on National Forest System I SUPO must be filed with the appropriate Forest Service Office).		ation specific information a	and/or plans as may	be required by the
25. Signature (Electronic-Submission)	Name (Printed/Typed) Lara Thompson / Ph: (50	5)254-1115	Date 03/	30/2018
Title Assistant Project Manager	•			
Approved by (Signature)	Name (Printed/Typed)		Date	;
(Electronic Submission)	Cody Layton / Ph: (575)2	34-5959	07/	/13/2018
Title Assistant Field Manager Lands & Minerals	Office CARLSBAD	·		
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	legal or equitable title to those right	s in the subject lease	which would entitle	the applicant to

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)
6-1 Res 08/16/18

Approval Date: 07/13/2018

K&117/18 (Instructions on page 2)

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.

(Continued on page 3)

(Form 3160-3, page 2)

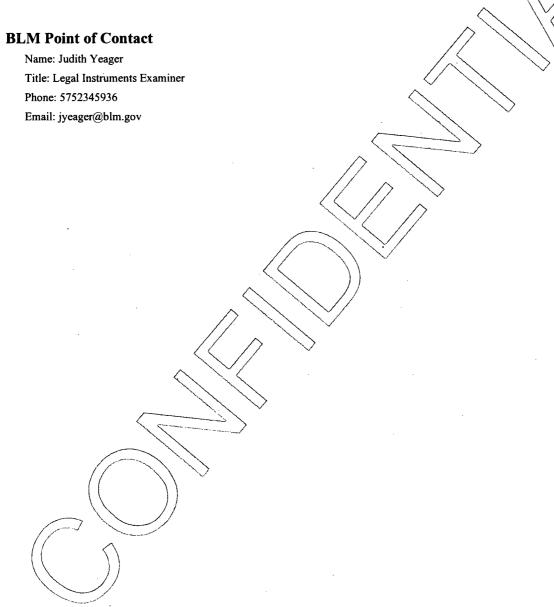
Additional Operator Remarks

Location of Well

1. SHL: SESE / 257 FSL / 429 FEL / TWSP: 238 / RANGE: 35E / SECTION: 19 / LAT: 32.2835923 / LONG: -103.3995732 (TVD: 0 feet, MD: 0 feet)

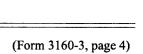
PPP: SESE / 330 FSL / 331 FWL / TWSP: 238 / RANGE: 35E / SECTION: 19 / LAT: 32.2837826 / LONG: -103.4013875 (TVD: 11500 feet, MD: 14853 feet)

BHL: NENE / 240 FNL / 990 FEL / TWSP: 238 / RANGE: 35E / SECTION: 19 / LAT: 32.2967115 / LONG: -103.4014034 (TVD: 11500 feet, MD: 16263 feet)



Review and Appeal Rights

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





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

Application Data Report

APD ID: 10400028836 Submission Date: 03/30/2018

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FEDERAL Well Number: 134H

Well Type: OIL WELL Well Work Type: Drill

Show Final Text

Section 1 - General

APD ID: 10400028836 Tie to previous NOS?

Submission Date: 03/30/2018

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: NMNM115426

Lease Acres: 279.45

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

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: 134H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BONE SPRING

Pool Name:

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

Well Name: DR IRELAND FEDERAL Well Number: 134H

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

Weil 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 nearest well: 30 FT Distance to lease line: 570 FT

Reservoir well spacing assigned acres Measurement: 159.8 Acres

Well plat: 1Mile_Radius_Map_20180326151557.docx

BO_DR_IRELAND_FED_COM_SLOT_4_SURFACE_PAD_SITE_S_20180326151618.pdf CD_DR_IRELAND_FED_COM_SLOT_4_SURFACE_PAD_PRO_S_20180326151619.pdf

DrlrelandFederal134H_Signed_PoolCode_20180628105332.pdf

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	dΛΤ
SHL Leg #1	257	FSL	429	FEL	238	35E	19	Aliquot SESE	32.28359 23	- 103.3995 732	LEA	NEW MEXI CO	NEW MEXI CO	F		339 3	0	0
KOP Leg #1	257	FSL	429	FEL	23S	35E	19	Aliquot SESE	32.28359 23	- 103.3995 732	LEA	1	NEW MEXI CO	F	NMNM 115426	189 3	150 0	150 0

Well Name: DR IRELAND FEDERAL

Well Number: 134H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	DVT
PPP Leg #1	330	FSL	331	FWL	238	35E	19	Aliquot	32.28378 26	- 103.4013 875	LEA	1	NEW MEXI CO	F	NMNM 115426	- 810 7	148 53	115 00
EXIT Leg #1	330	FNL	990	FEL	238	35E	19	Aliquot NENE	32.29646 41	- 103.4014 031	LEA	1	NEW MEXI CO	F	NMNM 113422	- 810 7	161 73	115 00
BHL Leg #1	240	FNL	990	FEL	238	35E	19	Aliquot NENE	32.29671 15	- 103.4014 034	LEA	NEW MEXI CO	—	F	NMNM 113422	- 810 7	162 63	115 00

Lea County, New Mexico Featherstone 4-5-2014 Chesopeule Catchings orden dil Crown Dil, et all lies to the control of the contro BIL Bevon Ener. Tates Pet, etal Wa 6 8 1 54 2 S 650 € 40-4031 E no sason \$ 2.218. 3 E. Page, ctal, M.I. Crown Gilet al) B.A. How May M. Cheistman 1 F News State Mardell State Jim Helker (5) Off Co. m Keller(S) 1 Yotes have 31 2019 16, 18 496, 32 (Crawn Citeral Citeran Cit Deven Energen Ros. \$2,250.02 \$2,250.02 Sec 4-1-2018 VB-22 \$1,517.00 State M ٠ 212 Murphy Corp St Henry TO 4500 (eliaria Keller (5) rates Pet etal Tates Pat etal HBP D/A 3 24 5 B-15661 18 Store 21 E 17 16 - 13-⊕IGA Snowden US Pohor TO 4957 GMT Expl. 61 2016 VB-2054 s Petr. Amoco Shore 1013944 DM 4-21-81 \$ 2.204.55 in Keller (5 Thiestel Signe on Keller (S) Jim Ke SIN BHL: Dr ireland #134H BHL totas Pel. J.Millenetol J. Miller, et al HISSANGE 1 4-1-1018 18-2252 \$1,627-66 113422 11,880 VB-145 20 -2 F 19 (Natomas) J.Miller Vales Pel. 41 7018 VB 7252 et al 51.CZ U.S 1. Miller, et al 21-2024 15 115426 Regeration 15426 Regeration 15 Apperis US MICE 113416 425 22 Mg 5/9/c m Keller 15 Jim Kaller Jim Keller (S) (C) 14 - 6 - 14 Il Yates Pet Leta Smile - U.S. Mine Jim Reller (S) 204 ♦IN SAL O J. Miller Regeneration Et al 19146 16-1-2011 14 4-16-12 VB-1024 \$6.03.00 Dr tretand Yates vales Petr. Normar St. #134H SHL 12 · 1 78 · 1 35 ation And Bull 10 39 33 Devon Éggi. Yules Pel.etal Berne 117 \$ 58 (Sec. Bass Bras Ent ? Ve. Custer Attn. Unit 115427 30 29 - -25- - -700 20 Deven Ener. 11-1-5011 10-1-2011 V-7880 67422 ¥B-1050 225 € Spr. Disc: u. S. 18 des - © Kaller(S. State Suponué, u S. Jim Keller (S State U.S. (Chésapéake) Devori Érier 6 i 2005 J. Miller, et al FIM-05DM - - DIN 8380 BHL Yates Per. wbourne 1 - 7015 va - 1632 \$ 838.97 Mewbourne 10 1 ZOIZ 2-1 -2 017 VE-2140 4 · 1 · 2015 | VB · 1048 |\$781. 25 VA- 2478 52, 281 25 50,03 31 Com 31 Com 10 2 3 20 07 Red Bull St atador 1Chasapeoke) Devon Ener

1 inch = 2,500 feet

2,500

0

Projection: NAD_1927_StatePlane_New_Mexico_East_FIPS_3001 (feet)

J. Miller, etal por Gulf

■ Feet 5,000 10,000

Map Prepared by: AGreen Outer teasember 12, 2015 fürname: Gestätenther 12, 2015 fürname: Gestätenther 12, 2015 Sources: IHS Energy, Middent Map Company; Lostromentat Systems Seasemb Institute [2501];



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



APD ID: 10400028836 Submission Date: 03/30/2018

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FEDERAL Well Number: 134H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most: recent abunces

Show Final Text

Section 1 - Geologic Formations

		True Vertical	Measured			Producing
Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
RUSTLER	3393	1414	1414		USEABLE WATER	No
SALADO	1594	1800	1800		NONE	No
BASE OF SALT	-735	4129	4129		NONE	No
BELL CANYON	-2173	5567	5567		NATURAL GAS,OIL	No
BRUSHY CANYON	-4113	7507	7507		NATURAL GAS,OIL	No
BONE SPRING LIME	-5419	8813	8813		NATURAL GAS,OIL	No
BONE SPRING 1ST	-6144	9538	9538		NATURAL GAS,OIL	No
BONE SPRING 2ND	-6592	9986	9986		NATURAL GAS,OIL	No
BONE SPRING 3RD	-7332	10726	10726		NATURAL GAS,OIL	No
WOLFCAMP	-8269	11662	11662		NATURAL GAS,OIL	Yes
	SALADO BASE OF SALT BELL CANYON BRUSHY CANYON BONE SPRING LIME BONE SPRING 1ST BONE SPRING 2ND BONE SPRING 3RD	RUSTLER 3393 SALADO 1594 BASE OF SALT -735 BELL CANYON -2173 BRUSHY CANYON -4113 BONE SPRING LIME -5419 BONE SPRING 1ST -6144 BONE SPRING 2ND -6592 BONE SPRING 3RD -7332	Formation Name Elevation Depth RUSTLER 3393 1414 SALADO 1594 1800 BASE OF SALT -735 4129 BELL CANYON -2173 5567 BRUSHY CANYON -4113 7507 BONE SPRING LIME -5419 8813 BONE SPRING 1ST -6144 9538 BONE SPRING 2ND -6592 9986 BONE SPRING 3RD -7332 10726	RUSTLER 3393 1414 1414 SALADO 1594 1800 1800 BASE OF SALT -735 4129 4129 BELL CANYON -2173 5567 5567 BRUSHY CANYON -4113 7507 7507 BONE SPRING LIME -5419 8813 8813 BONE SPRING 1ST -6144 9538 9538 BONE SPRING 2ND -6592 9986 9986 BONE SPRING 3RD -7332 10726 10726	Formation Name Elevation Depth Depth Lithologies RUSTLER 3393 1414 1414 1414 SALADO 1594 1800 1800 1800 BASE OF SALT -735 4129 4129 BELL CANYON -2173 5567 5567 BRUSHY CANYON -4113 7507 7507 BONE SPRING LIME -5419 8813 8813 BONE SPRING 1ST -6144 9538 9538 BONE SPRING 2ND -6592 9986 9986 BONE SPRING 3RD -7332 10726 10726	Formation Name Elevation Depth Lithologies Mineral Resources RUSTLER 3393 1414 1414 USEABLE WATER SALADO 1594 1800 1800 NONE BASE OF SALT -735 4129 4129 NONE BELL CANYON -2173 5567 5567 NATURAL GAS,OIL BRUSHY CANYON -4113 7507 7507 NATURAL GAS,OIL BONE SPRING LIME -5419 8813 8813 NATURAL GAS,OIL BONE SPRING 1ST -6144 9538 9538 NATURAL GAS,OIL BONE SPRING 2ND -6592 9986 9986 NATURAL GAS,OIL BONE SPRING 3RD -7332 10726 10726 NATURAL GAS,OIL

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.

Well Name: DR IRELAND FEDERAL

Well Number: 134H

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_20180326153635.pdf

BOP Diagram Attachment:

BOP_297_001_20180326153644.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	5400			5400	J-55	1	OTHER - BTC	I_	1.12 5	BUOY	1.8	BUOY	1.8
3	PRODUCTI ON	8.75	5.5	NEW	NON API	N	4400	16263	4400	11500			11863	P- 110		OTHER - BTC/TXP	I	1.12 5	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

Well Name: DR IRELAND FEDERAL Well Number: 134H

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	1.38	14.8	994	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		0	5400	1170	2.13	12.6	2492	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	1626 3	760	2.35	11.5	1786	35	TXI	Fluid Loss + Dispersant + Retarder + LCM

Well Name: DR IRELAND FEDERAL

Well Number: 134H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		4400	1626 3	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)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	850	SPUD MUD	8.3	8.3							
0	5400	SALT SATURATED	10	10							
4400	1626 3	OTHER : FW/ Cut Brine	9	9		•					

Well Name: DR IRELAND FEDERAL

Well Number: 134H

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 geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Matador_Hydrogen_Sulfide_Drilling_Leslie__024_20180315122100.docx

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Dr. Ireland Fed Com 134H Well_Plan_v1_20180326154144.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Close_Loop_System_20180326154155.docx

297Co_Flex_Certs__Dr._Ireland_Fed_Com__134H_20180326154209.pdf

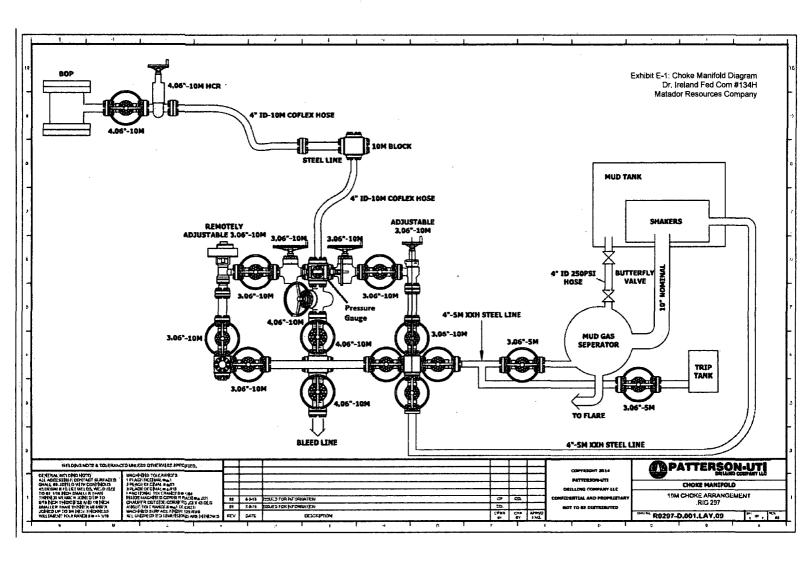
Dr._Ireland_Fed_Com__134H___Geoprog_v1_20180326154224.pdf

Dr._Ireland_Fed_Com__134H_MTDR_Drlg_Plan_20180326154225.docx

3_string_Speed_Head_20180326154238.pdf

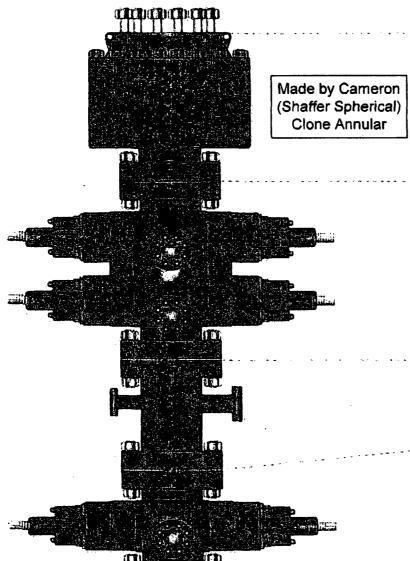
Other Variance attachment:

•









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

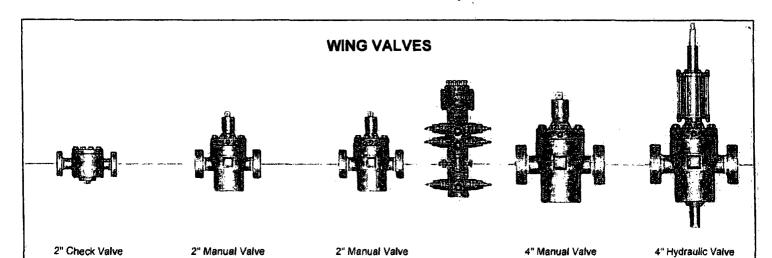
PATTERSON-UTI # ____ PC2-228

STYLE: ___ New Cameron Type U

BORE ___ 13 5/8" __ PRESSURE ___ 10,000

RAMS: ____ 5" Pipe

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



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

February 02 2017



Size: 5.500 in. **Wall**: 0.361 in.

Weight: 20.00 lbs/ft Grade: P110-IC

Min. Wall Thickness: 87.5 %

Connection: TenarisXP® BTC Casing/Tubing: CAS

Coupling Option: REGULAR

		GEOMET	TRY		
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				
		NADICYDO DIC CO	AINIECTION O	ATA	
	161	VARISXP® BTC CO		AIA	
Connection OD	6.100 in.	GEOMET Coupling Length	9.450 in.	Connection ID	4.766 in.
	6.100 m.	Coupling Length	9.450 IN.	Connection 1D	4.766 III.
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 $Capacity^{(\underline{1})}$	12630 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	641 × 1000 lbs	Structural Bending ^(<u>2</u>)	92 °/100 f
External Pressure Capacity	12100 psi				
	E	STIMATED MAKE-U	IP TORQUES ⁽	3)	
Minimum	11270 ft-lbs	Optimum	12520 ft-lbs	Maximum	13770 ft-II
		OPERATIONAL LIN	IT TORQUES	3	
Operating Torque	21500 ft-lbs	Yield Torque	23900 ft-lbs		

⁽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		
		GEOMET	RY		
·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				
•	TEI	NARISXP® BTC CO		ATA	
		1		T	
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 $(\underline{1})$	12630 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	641 × 1000 lbs	Structural Bending ^(<u>2</u>)	92 %100 ft
External Pressure Capacity	12100 psi				
	E	STIMATED MAKE-U	IP TORQUES ⁽	3)	
Minimum	11270 ft-lbs	Optimum	12520 ft-lbs	Maximum	13770 ft-lbs
		OPERATIONAL LIN	IT TORQUES		
Operating Torque	21500 ft-lbs	Yield Torque	23900 ft-lbs		
		BLANKING DIN	IENSIONS		

⁽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: 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: DFb=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).

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: 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: 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: DFb=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).

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: DFb=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: DFb=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: 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).

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.

Exhibit E-2: Co-Flex Certifications Dr. Ireland Fed Com #134H Matador Resources Company

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

December 8, 2014

Customer: Patterson

Pick Ticket #: 284918

Hose	Spec	ticat	ions

Hose Type
Ck
LD.
3"
Working Pressure
10000 PSI

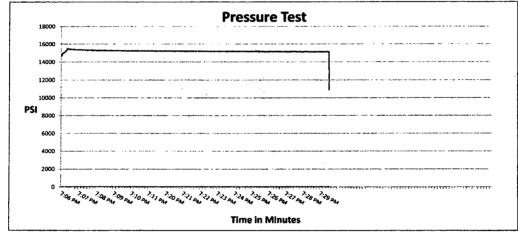
Length
10'
Q.D.
4.79"
Burst Pressure
ndard Salety Multipher Applies

Yerification

Type of Fitting 4-1/16 10K <u>Die Size</u> 5.37" Hose Serial # 10490

Swage
Final O.D.
5.37"
Hose Assembly Serial #
284918-2

Coupling Method



Test Pressure 15000 PSI Time Held at Test Pressure

Actual Burst Pressure

Peak Pressure 15732 PSI

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

Tested By: Tyler H

Approved By: Ryon Adj



Midwest Hose & Specialty, Inc.

General Infor	mation	Hose Specifi	cations
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	ОКС	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
	Fit	tings	
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	5.3	7 Dies Used	5.37
	Hydrostatic Te	st Requirements	
Test Pressure (psi)	15,000	Hose assembly was tested	with ambient water
	15 1/2	temperatu	



Midwest Hose & Specialty, Inc.

Customer: PATTERSON I	3&E	Customer P.O.# 260471	
ales Order # 236404		Date Assembled: 12/8/2014	
	Spe	cifications	
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
Fan Alama	12/9/2014

Exhibit E-2: Co-Flex Certifications Dr. Ireland Fed Com #134H Matador Resources Company

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

December 9, 2014

Customer: Patterson

Pick Ticket #: 284918

Verification

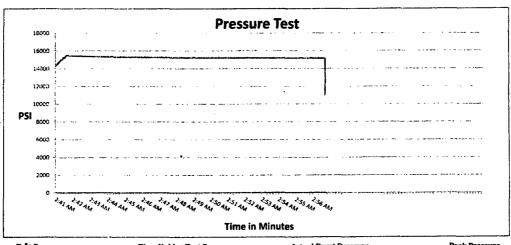
Hose Specifications

Hose Type Ck LD. 3" Working Pressure

4.77 **Burst Pressure** Type of Fitting 4-1/16 10K Die Size 5.37" Hose Serial #

Coupling Method 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



Midwest Hose & Specialty, Inc.

General Infor	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	atic Test Certificate Hose Specil	20000000000000000000000000000000000000
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	ОКС	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'	Armor (yes/no)	YES
	Fit	tings	
End A		End E	3
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	5.3	7 Dies Used	5.37
	Hydrostatic Te	st Requirements	
Test Pressure (psi)	15,000	Hose assembly was tested	with ambient water
Test Pressure Hold Time (minutes)	15 1/2 temperatu		ure.

Date Tested	Tested By	Approved By
12/9/2014	Toll	Gan Alana



Customer:	PATTERSON	B&E	Customer P.O.# 260471	
Sales Order #	236404		Date Assembled: 12/8/2014	
		Spec	ifications	
Hose Asser	nbly Type:	Choke & Kill		
Hose Asser Assembly		Choke & Kill 287918-1	Hose Lot # and Date Code	10490-01/13

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
Fran Alama	12/9/2014

Exhibit E-2: Co-Flex Certifications Dr. Ireland Fed Com #134H Matador Resources Company

Internal Hydrostatic Test Graph

December 9, 2014

Midwest Hose & Specialty, Inc.

Customer: Patterson

Pick Ticket #: 284918

Hose Specifications

Hose Type LD. Working Pressure 10000 PSI

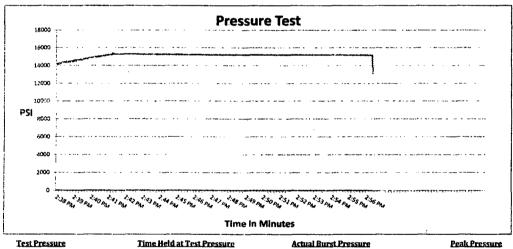
O.D. 4.79 **Burst Pressure**

Length 70'

Verification

Type of Fitting 4 1/16 10K Die Size 5.37" Hose Serial # 10490

Coupling Method Swage Final O.D. 5.37" Hose Assembly Serial #



Test Pressure 15000 PSI

Time Held at Test Pressure 16 3/4 Minutes

Peak Pressure 15410 PSI

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

Tested By:

Approved By: Ryan



Midwest Hose & Specialty, Inc.

General Inform	mation	Hose Specifi	cations	
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	ОКС	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'	Armor (yes/no)	YES	
	Fit	tings		
End A		End B	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 #)		Connection (Heat #)		
Dies Used	5.3	7 Dies Used	5.3	
	Hydrostatic Te	st Requirements		
Test Pressure (psi)	15,000	Hose assembly was tested	with ambient water	
	16 3/4 temperatur			



Midwest Hose & Specialty, Inc.

		Certificat	e of Conformity	
Customer:	PATTERSON E	3&E	Customer P.O.# 260471	•
Sales Order #	236404		Date Assembled: 12/8/2014	
		Spe	cifications	
Hose Asser	mbly Type:	Choke & Kill		
Assembly	y 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
12/11	12/9/2014
Fan Allana	

	MAT	ADOR PRODU	ICTION Co. FEDERAL APD W	ELL PROGNOSIS	
General					
					<u> </u>
	Operator	MRC			
	Lease	Dr. Ireland			
	Well Name	Dr. Ireland Fed C			
	PTD (MT + ΔTVD from SHL - BHL)	16294	Permit Depth (TVD)		
	Formation at TD	'TBSG			ļ
Location		 			
Location	SHL	x/Y	788719	468100	1
	JIL	Lat/Long		400100	<u> </u>
**************************************	PP/FTP	X/Y	788157	468164	
		Lat/Long		T	
	BHL	X/Y	788112	472868	<u> </u>
		Lat/Long			
				VS AZM	180.55
				VS	4773.59
Rig/KB		29			
Elevation - GL	3393				
Elevation - KB	3422			Operator YATES PETROLEUR CORPORATION	24 (PBT 1 [55T/O] [-VA. 3603338603000
				TD (NOSS), 10932.5 h	Spud date: CG-30/1995 1/20% RE-180 (1995 1/20% Spud date: Spud (1995) Spud (19
Prognosis			Example Type Log>	CALLED TOO	The second secon
					Land 1 Marks of
Formation Name	SSTVD*		Bearing/Hazards		
Z (Rustler)	-i		Water/Salt/Washout	7000	
Top Salt: Z (Salado)	-1		Salt/Washout	8160	
Base Salt: Z (G30:CS14-CSB)	₹		Barren	GS L Brushy Cym (1)	1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Z(G26: Bell Canyon)	-4		Hydrocarbon/Loss Circ	GL 890L (CS9) 4 4 6788 5 F Andres (CS9 1/FS) 11	Back Ge Back (
Z (G7: Brushy Cyn.)	-1		Hydrocarbon/Loss Circ	Lis 2 U Arabon Shate D Lis 2 U Arabon Shate D	Mories — GG BSGL (———————————————————————————————————
Z(G4: BSGL (CS9))	1		Hydrocarbon	L6 2 L. Avakon Shake (1)	
Z(L5.3: FBSC)	-3		Hydrocarbon	9369	
Z (L5.1: FBSG)	₫		Hydrocarbon	US 1 P6NC :- 9568	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Z (L4.3: SBSC)	-i		Hydrocarbon	U1 1 FB3G 4 9789 A 9789 A	DIPS DIA SEE
Z (L4.1: SBSG)	4		Hydrocarbon	LA3: SBSC (2 July 28X
Z (L3.3: TBSC)	+		Hydrocarbon	LA 1 5890 F	37.4 1 SBSG
Z (L3.1: TBSG)	4		Hydrocarbon	13568	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Z (L2: WFMP A)	-4		Hydrocarbon Hydrocarbon	133 TBSC (f) 10769	- дин - ди) тозс
Z (X Sand (T))	-		Hydrocarbon	10000	
Z (X Sand (B)) Z (Y Sand (T))	4		Hydrocarbon	11188 11188	HLD 1 TB50
Z (Y Sand (B))			Hydrocarbon	X Sand (f) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Sand (i)
Z (WFMP A Fat)			Hydrocarbon	Y Sand (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	The state of the s
Z (WFWF A Fat)	* values derived from Petr		riyar ocar oon	WFAP FE Carb 1 11/08	A PARTY OF THE PAR
Preliminary Targeting	values derived from Feti	ei Suriaces		St. PAM ⊕ 12169	
r remaindry range unig	ļ				
Formation Name	TBSG			12475.1	
	†				
Top Target	11505		Target Reference Surface	TBSG	
Mid Target (@ 0 VS)	11520		Mid Target (below ref. surface)	130	
Bottom Target	11535		Target Window (+/- MT)	15	
Reservoir Characteristics			Geoplat " North	MENCO CAST WO 1927 ACTIONS ASSESSED ASS	DPERATOR CERTIFICATION
	Rock Type	Sand		WD 1927	
	Gross Thickness	30	LAT.	**************************************	be bright short by the depart of a managery
	Est. res. Temp	ļ .		X-020006 V-172205 V-172205	II
	Est. res. pressure	ļ	Long	W 100,4014004 UAST PERSONALION POINT NEW MERCO EAST NAO 1527 2079013	
	ļ			ANTONIOS BIS	
Well Design			 	1	
	 			THE STATE OF THE S	SURVEYOR CERTIFICATION
1st intermediate casing	4000	ļ	 	PRIST PERSONATION POINT	s pictud from field moter of actual surveys y me or wader my supercount, and field file
2nd intermediate casing	60-70 degrees	ļ	9,674	FIRST PERSONATION FORTH CONTROL CONTRO	the to the left of my bild?
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Mud logs	Yes	ļ	LAT.	W (C) 285722	Tan El Lloyd
MWD logs	Yes	 	L	TRANSPORTER TO THE TRANSPORT OF THE TRAN	O THE PROPERTY OF THE PROPERTY
Brangrad by	Dan Brugiani		Date	12/11/2017	Vyor 1
Prepared by:	Dan Brugioni		Date:	12/11/201/	VCI. I
Approved by:	 		Date:		
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Drilling Operations Plan Dr. Ireland Fed Com #134H **Matador Resources Company**

Sec. 19, 23S, 35E Lea County, NM

Surface Location: **Bottom Hole Location:** 257' FSL & 429' FEL, Sec. 19

240' FNL & 990' FEL, Sec. 19

Elevation Above Sea Level: 3393'

Geologic Name of Surface Formation:

Third Bone Spring

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

Proposed Drilling Depth:

16,263' MD / 11,500' TVD

Estimated Tops of Geological Markers w/ Mineral Bearing Formation:

	Est	
Formation Name	Тор	Bearing
Rustler	1414	Water
Salado	1800	Barren
Base of Salt	4129	Barren
Bell Canyon	5567	Hydrocarbo n
Brushy Canyon	7507	Hydrocarbo n
Bone Spring Lime	8813	Hydrocarbo n
First Bone Spring Carb	9538	Hydrocarbo n
First Bone Spring Sand	9844	Hydrocarbo n
Second Bone Spring Carb	9986	Hydrocarbo n
Second Bone Spring Sand	10393	Hydrocarbo n
Third Bone Spring Carb	10726	Hydrocarbo n
Third Bone Spring Sand	11391	Hydrocarbo n
Wolfcamp A	11662	Hydrocarbo n

OSE Ground Water Estimated Depth:

280'

Casing Program

Name	Hole Size	Casing Size	Wt/Grad e	Thread Collar	Setting Depth	Top Ceme nt
			54.5# J-			Surfac
Surface	17-1/2"	13-3/8" (new)	55	BTC	850	e
Intermediat	12-1/4"	9-5/8" (new)	40# J-55	BTC	5400	Surfac

Drilling Operations Plan Dr. Ireland Fed Com #134H Matador Resources Company

Sec. 19, 23S, 35E Lea County, NM

	е						е
-	·			20# P-			
	Production	8-3/4"	5-1/2" (new)	110	BTC/TXP	16263	4400

Minimum Safety Factors:

Burst: 1.125

Collapse: 1.125

Tension 1.8

Cementing Program

Name	Туре	Sacks	Yield	Weight	Blend	
					Class C + Bentonite + 2% CaCL2 + 3%	
Surface	Lead	210	1.82	12.8	NaCl + LCM	
	Tail	720	1.38	14.8	Class C + 5% NaCl + LCM	
TOC =	0'	10	00% Exce	ss	Centralizers per Onshore Order 2.III.B.1f	
Intermediat					Class C + Bentonite + 1% CaCL2 + 8%	
e	Lead	1170	2.13	12.6	NaCl + LCM	
	Tail	620	1.38	14.8	Class C + 5% NaCl + LCM	
					2 on btm jt, 1 on 2nd jt, 1 every 4th jt to	
TOC =	0'	100% Excess			surface	
					TXI + Fluid Loss + Dispersant + Retarder +	
Production	Lead	760	2.35	11.5	LCM	
					TXI + Fluid Loss + Dispersant + Retarder +	
	Tail	1500	1.39	13.2	LCM	
TOC - 44	TO 0 44001		E0/ Even		2 on btm jt, 1 on 2nd jt, 1 every other jt to	
TOC = 4400'		3	5% Exces	55	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,

Drilling Operations Plan Dr. Ireland Fed Com #134H Matador Resources Company

Sec. 19, 23S, 35E Lea County, NM

a minimum of a 5M BOPE system will be installed after surface casing is set. BOP test 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
					FW Spud
Surface	17-1/2"	8.30	28	NC	Mud
Intermediat					
е	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:

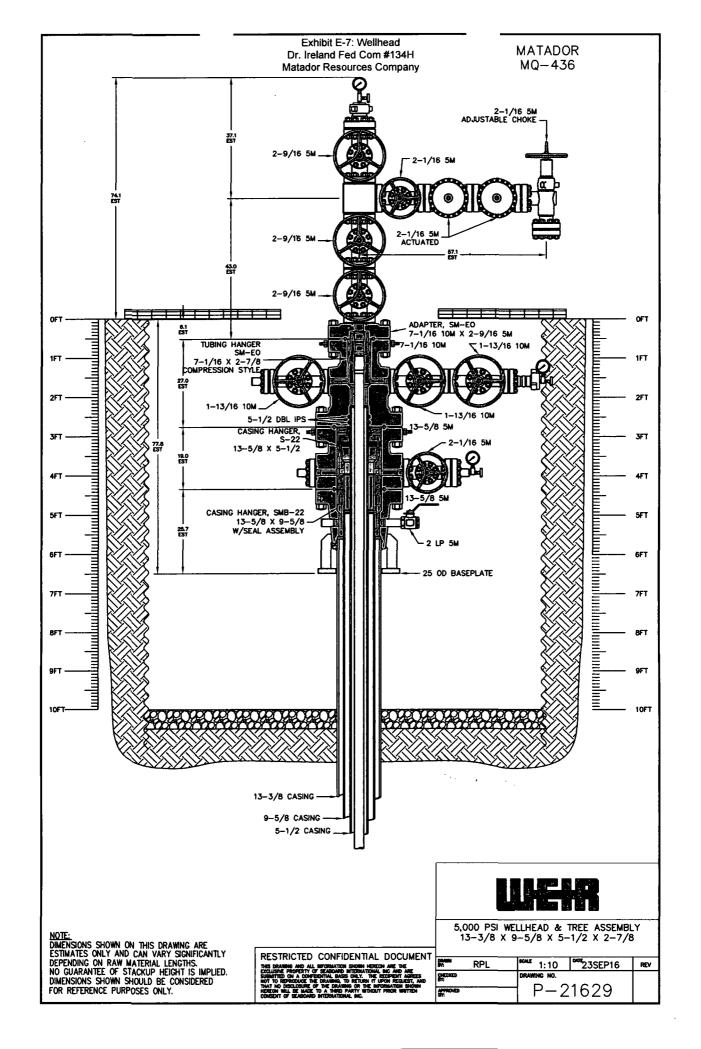
No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H_2S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an " H_2S Drilling Operation Plan" or "Public 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: 5500 Estimated BHT: 175°

Construction and Drilling:

Drilling Operations Plan
Dr. Ireland Fed Com #134H
Matador Resources Company
Sec. 19, 23S, 35E
Lea County, NM

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



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.

Commence of the second of the

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Flowback Strategy

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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.

A STATE OF THE STA

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
 - o Operating a generator will only utilize a portion of the produced gas and the remainder of gas would still need to be flared.
 - o 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
 - o Compressed Natural Gas is likely to be uneconomic to operate when the gas volume declines.
- NGL Removal On lease
 - o NGL Removal requires a plant and is expensive on such a small scale rendering it uneconomic and still requires residue gas to be flared.



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



Operator Name: MATADOR PRODUCTION COMPANY

Well Name: DR IRELAND FEDERAL Well Number: 134H

Well Type: OIL WELL Well Work Type: Drill



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: 483

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

Well Name: DR IRELAND FEDERAL Well Number: 134H

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:

Existing Well_Map_Slot_4_20180326143624.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:

Well Name: DR IRELAND FEDERAL

Well Number: 134H

Production Facilities map:

Location_Layout_20180326154324.pdf 44924p01_Facility_Layout_S4_20180329_20180329162618.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.):

Well Name: DR IRELAND FEDERAL Well Number: 134H

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 containment 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: 134H

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 20180326154434.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

Well pad interim reclamation (acres):

Well pad long term disturbance

(acres): 5.72

(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): Powerline long term disturbance

(acres): 0

Pipeline proposed disturbance

Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

(acres): 0

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Other proposed 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 FEDERAL Well Number: 134H 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 source: Seed type: Seed name: Source name: Source address:

Source phone: Seed cultivar:

Seed use location:

Well Name: DR IRELAND FEDERAL Well Number: 134H

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:

Well Name: DR IRELAND FEDERAL	Well Number: 134H
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Biotombonoo funo, EVISTING ACCESS DOAF	
Disturbance type: EXISTING ACCESS ROAD Describe:	•
Surface Owner: PRIVATE OWNERSHIP,STA	TE GOVERNMENT
Other surface owner description:	. 2 3 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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 Number: 134H Well Name: DR IRELAND FEDERAL **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:

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

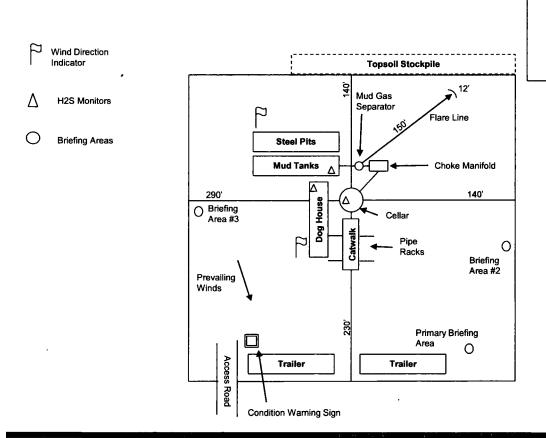


Exhibit E-3: Rig Diagram
Dr. Ireland Fed Com #134H
Matador Resources Company
19-23S-35E
SHL 257' FSL & 429' FEL
BHL 240' FNL & 990' FEL
Lea County, NM



Section 3 - Unlined Pits

Injection well mineral owner:

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:	
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 Dissolutation of the existing water to be protected?	lved Solids (TDS) concentration equal to or less than
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 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

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: