Ulue 2015) UNITED STATES Output Expres January 31, 2018 BUREAU OF LAND MANAGEMENT OF Stease Serial No. NMLCO083798 APPLICATION FOR PERMIT TO DRILL OR REELECT Stease Serial No. NMLCO083798 In Type of Work: ORIN WILL REENTER Stease Serial No. In Type of Work: ORINE Completion IPydraulic Practuring Single Zone Multiple Zone In Type of Well: Otil Well Gas Well Other Rteenter Rteenter It. Type of Completion IPydraulic Practuring Single Zone Multiple Zone Rteenter 2. Name of Operator 9. API Well No. To Exploratory To Exploratory MATADOR PRODUCTION COMPANY 2223747 Ito State Regression No. No. A durest To Ferloratory RED HILLS BONE SPRING, NORTH RED HILLS BONE SPRING, NORTH A tractace NWNE / 597 FU. / 187 FEI / 147 22237743 / 100 -010 5400885 St. St. St. A tractace NWNE / 597 FEI / 187 FEI / 147 22237743 / 100 -010 5400885 St. St. St. A tractace Nume in mis and direction from nearest toron or post office* 12 County or Parish I3. State States Finer, ftt <td< th=""><th>DEDUDTE OF THE</th><th>and the second sec</th><th></th><th>) · ·</th><th>MONE.</th><th></th></td<>	DEDUDTE OF THE	and the second sec) · ·	MONE.	
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President Name (Printed/Typed) Date Approved by (Signature) Christopher Walls / Ph: (575)234-2234 Date (Electronic Submission) Office 0 Petroleum Engineer CARLSBAD 0 Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Diffice COMMER ID/L2/118 Office Diffice (Continued on page 2) *(Instructions on page 2)	6			66-8120		
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INSTRUCTIONS

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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 I: 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 wen, 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 directionany 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.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

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 wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

 SHL: NWNE / 597 FNL / 1877 FEL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.2377443 / LONG: -103.5406885 (TVD: 0 feet, MD: 0 feet) PPP: NWSE / 2640 FSL / 2291 FEL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.232125 / LONG: -103.542047 (TVD: 11974 feet, MD: 14356 feet) PPP: NWNE / 597 FNL / 1877 FEL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.2377443 / LONG: -103.5406885 (TVD: 0 feet, MD: 0 feet) BHL: SWSE / 240 FSL / 2306 FEL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.2255172 / LONG: -103.5420628 (TVD: 11974 feet, MD: 16761 feet)

BLM Point of Contact

Name: Sipra Dahal Title: Legal Instruments Examiner Phone: 5752345983 Email: sdahal@blm.gov

Review and Appeal Rights

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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

0/08/2018

APD ID: 10400032585

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM

Well Type: OIL WELL

Submission Date: 07/30/2018

State of the

Zip: 75240

Well Number: 133H Well Work Type: Drill kighlighled dala cileats Daalmias ccient Changes

Show Final Text

Section 1 - General		
APD ID: 10400032585	Tie to previous NOS?	Submission Date: 07/30/2018
BLM Office: CARLSBAD	User: Brian Wood	Title: President
Federal/Indian APD: FED	Is the first lease penetrated f	or production Federal or Indian? FED
Lease number: NMLC0063798	Lease Acres: 2480	
Surface access agreement in place?	Allotted? Re	eservation:
Agreement in place? NO	Federal or Indian agreement	:
Agreement number:		
Agreement name:		
Keep application confidential? NO		
Permitting Agent? YES	APD Operator: MATADOR PF	RODUCTION COMPANY
Operator letter of designation:		

Operator Info

Operator Organization Name: MATADOR PRODUCTION COMPANY

Operator Address: 5400 LBJ Freeway, Suite 1500

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: CHARLES LING FED COM	Well Number: 133H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: RED HILLS BONE SPRING, NORTH	Pool Name:

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

.

Well Number: 133H

Desc	ribe c	other	miner	als:														
ls the	e prop	osed	well i	in a H	elium	prod	uctio	n area?	N Use E	Existing W	ell Pa	d? NO	Ň	ew	surface o	listurl	oance	?
Туре	of W	ell Pa	d: MU	ILTIPL	.E WE	ELL				ple Well P			Nu	uml	ber: SLO	Т З		
Well	Class	: HOF	RIZON	ITAL						RLES LING Der of Leg		СОМ						
Well	Work	Туре	: Drill															
Well	Туре:	OILV	VELL															
Desc	ribe V	Vell T	ype:															
Well	sub-T	ype:	INFILI	_														
Desc	ribe s	ub-ty	pe:															
Dista	nce t	o tow	n: 23	Miles			Dis	tance to	o nearest v	vell: 30 FT	-	Dist	ance t	o le	ase line:	360 F	-T	
Rese	rvoir	well s	pacin	ig ass	ignec	l acre	s Me	asurem	ent: 160 A	cres								
Well	plat:	CL	_133ł	H_C10)2_eta	nl_072	618_	2018073	30135759. _l	pdf								
Well	work	start	Date:	10/01	/2018				Durat	i on: 90 DA	AYS							
	Sec	tion	3 - V	Vell	Loca	ation	Tal	ble										
Surve	әу Тур	be: RE	ECTA	NGUL	AR													
Desc	ribe S	urvey	/ Туре	e:														
Datu	m: NA	D83							Vertic	al Datum:	NAVE	88						
Surve	ey nui	nber:	1832	9														
	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	597	FNL	187 7	FEL		33E	11	Aliquot NWNE	32.23774 43	- 103.5406 885	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0 063798	_	0	0
KOP Leg #1	53	FNL	211 2	FEL	24S	33E	11	Aliquot NWNE	32.23924 2	- 103.5414 67	LEA	NEW MEXI CO		F	NMLC0 063798	- 778 4		114 01
PPP Leg #1	597	FNL	187 7	FEL	24S	33E	11	Aliquot NWNE	32.23774 43	- 103.5406 885	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0 063798		0	0

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

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM

Well Number: 133H

Pressure Rating (PSI): 5M

Rating Depth: 12000

Equipment: A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attached BOP, choke manifold, co-flex hose, and speed head diagrams. An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed.

Requesting Variance? YES

Variance request: Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. Manufacturer does not require the hose to be anchored. If the specific hose is not available, then one of equal or higher rating will be used. Matador is requesting a variance to use a speed head for setting the intermediate (9-5/8") casing. In the case of running a speed head with landing mandrel for 9-5/8" casing, BOP test pressures after setting surface casing will be 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high before drilling below the surface shoe. The BOPs will not be tested again unless any flanges are separated. A diagram of the speed head is attached.

Testing Procedure: Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required in Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. A third party company will test the BOPs. After setting surface casing, and before drilling below the surface casing shoe, BOPE will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high. After setting 9-5/8" casing, pressure tests will be made to 250 psi low and 5000 psi high.

Choke Diagram Attachment:

CL_133H_choke_20180730140736.pdf

BOP Diagram Attachment:

CL_133H_BOP_297_20180730140746.pdf

n- 1991 9 1994 9		Se	ction	3 -	Cas	ing																
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	1340	0	1340	3617		1340	J-55		OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5220	0	5219	3617		5220	J-55		OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	16671	0	11974	3617		16671	Р- 110		OTHER - VAM DWC/C-IS HT Plus	1.12 5	1.12 5	DRY	1.8	DRY	1.8

Casing Attachments

Well Name: CHARLES LING FED COM

Well Number: 133H

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CL_133H_CasingDesignAssumptions_3string_BS_20180730140855.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CL_133H_CasingDesignAssumptions_3string_BS_20180730141005.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CL_133H_CasingDesignAssumptions_3string_BS_20180730141120.pdf

Section 4 - Cement

Operator Name: MATADOR PRODUCTION COMPANY Well Name: CHARLES LING FED COM

Well Number: 133H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1340	340	1.75	13.5	595	100	Class C	Bentonite + 2% CaCl2 + 3% NaCl + LCM
SURFACE	Tail		0	1340	800	1.38	14.8	1104	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		0	5220	1290	1.82	12.8	2348	100	Class C	Bentonite + 2% CaCl2 + 3% NaCl + LCM
INTERMEDIATE	Tail		0	5220	500	1.38	14.8	690	100	Class C	5% NaCl + LC
PRODUCTION	Lead		0	1667 1	935	2.35	11.5	1219 7	35	Class H	+ Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Tail		0	1667 1	500	1.38	14.8	690	35	Class H	Fluid Loss + Dispersant + Retarder + 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: All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions. A closed loop system will be used.

Describe the mud monitoring system utilized: An electronic Pason mud monitoring system complying with Onshore Order 1 will be used.

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1340	OTHER : Fresh water spud	8.4	8.4							
5220	1667 1	OTHER : Fresh water & cut brine	9	9							

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM

Well Number: 133H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1340	5220	OTHER : Brine water	10	10							

Section 6 - Test, Logging, Coring

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

A 2-person mud logging program will be used from 5,220' to TD. No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

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

CBL

Coring operation description for the well:

No core or drill stem test is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5247

Anticipated Surface Pressure: 2612.71

Anticipated Bottom Hole Temperature(F): 158

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:

CL_133H_H2S_Plan_Slot3_20180730141704.pdf

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CL_133H_Horizontal_Drill_Plan_20180730141714.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

CL_133H_Speedhead_Specs_3string_20180730142522.pdf CL_133H_Drill_Plan_Revised_20180816152247.pdf

Other Variance attachment:











] ## A		
		vest Hose ccialty, Inc.	
		of Conformity	
Customer: PATTERSON B		Customer P.O.# 260471	
Sales Order # 236404		Date Assembled: 12/8/2014	
	Speci	fications	
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
Ve hereby certify that the above o the requirements of the purch		for the referenced purchase order ent industry standards.	to be true according
Aldwest Hose & Specialty, Inc. 312 S I-35 Service Rd			
upplier: Aidwest Hose & Specialty, Inc. 1312 S I-35 Service Rd Oklahoma City, OK 73129 Tomments:	<u></u>		
Aidwest Hose & Specialty, Inc. 312 S I-35 Service Rd Oklahoma City, OK 73129			

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		est Hose	
	a spec	ialty, Inc.	
Inte	rnal Hydrosta	tic Test Certificate	
General Infor		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 #)	287918-1	Hose O.D. (Inches)	5.30"
Hose Assembly Length	20'	Armor (yes/no)	YES
	Fitt	ings	
End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64W8
Stem (Heoi #)	A141420	Stem (Heat #)	A141420
Ferrule (Port and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
Ferrule (Heat #)	37DA5631	Ferrule (Heat #)	37DA5631
Connection (Part #)	4 1/16 10K	Connection (Pon #)	4 1/16 10K
Connection (Heat #)	V3579	Connection (Heat #)	V3579
Dies Used	5.37	Dies Used	5.37
	Hydrostatic Tes	t Requirements	
Test Pressure (psi)	15,000	Hose assembly was tested	with ambient water
Test Pressure Hold Time (minutes)	15 1/2	temperatu	ıre.
Date Tested	Tested	By A	pproved By
12/9/2014	4/14		In Alans

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		dwest Hose pecialty, Inc.	
	Certificat	e of Conformity	
Customer: PATTERSC	DN B&E	Customer P.O.# 260471	
Sales Order # 236404		Date Assembled: 12/8/2014	
	Spe	cifications	
Hose Assembly Type:	Choke & Kill		
Assembly Serial #	287918-1	Hose Lot # and Date Code	10490-01/13
Hose Working Pressure (p	si) 10000	Test Pressure (psi)	15000
We hereby certify that the a to the requirements of the p Supplier: Midwest Hose & Specialty, 3312 S I-35 Service Rd	urchase order and cur	d for the referenced purchase order rrent industry standards.	to be true according
1			
Oklahoma City, OK 73129 Comments:			



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	Midwest & Special		
C	ertificate of	Conformity	
Customer: PATTERSON B&E	(Customer P.O.# 260471	
Sales Order # 236404	Ľ	Date Assembled: 12/8/20	14
	Specifica	ations	
Hose Assembly Type: Chok	e & Kill		
Assembly Serial # 2879	18-3	Hose Lot # and Date Co	de 10490-01/13
Hose Working Pressure (psi) 1000)	Test Pressure (psi)	15000
<i>We hereby certify that the above mate</i> to the requirements of the purchase of Supplier: Midwest Hose & Specialty, Inc. 1312 S I-35 Service Rd Oklahoma City, OK 73129 Comments:	rial supplied for th der and current in	he referenced purchase o dustry standards.	rder to be true according
Approved By			nte

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Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Intermediate #1 Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Production Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Intermediate #1 Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Production Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Intermediate #1 Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Production Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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



Hydrogen Sulfide Drilling

Operations Plan

Matador Resources

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system and briefing areas
- Evacuation procedures, routes and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30min pressure demand air packs

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible
- Windsock on the rig floor and / top of doghouse should be high enough to be visible

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - o Green Flag Normal Safe Operation Condition
 - Yellow Flag Potential Pressure and Danger
 - Red Flag Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

• See Exhibit E-1

6 <u>Communication:</u>

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required.
 In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.



7 Drilling Stem Testing:

• No DST cores are planned at this time

8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

11 Emergency Contacts

• See exhibit E-6

Exhibit E-6: H2S Contingency Plan Emergency Contacts Charles Ling Fed Com Slot 3 Wells 133H, 203H, & 213H Matador Resources Company Sec. 11, 24S, 33E Lea County, NM

Company Office			
Matador Resources Company	(972)-371-5200		
Key Personnel	· · · · · · · · · · · · · · · · · · ·		
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Blake Hermes	Drilling Engineer	972-371-5485	713-876-8558
	Construction Superintendent		
	Construction Superintendent		
Artesia			
Ambulance		911	
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office		575-746-9888	
Fire Department		575-746-2701	
Local Emergency Planning Committe	575-746-2122		
New Mexico Oil Conservation Division	วท	575-748-1283	
<u>Carlsbad</u>			
Ambulance		911	
State Police		575-885-3137	
City Police		575-885-2111	
Sheriff's Office		575-887-7551	
Fire Department	575-887-3798		
Local Emergency Planning Committe	575-887-6544		
New Mexico Oil Conservation Division	575-887-6544		
<u>Santa Fe</u>			
New Mexico Emergency Response C	505-476-9600		
New Mexico Emergency Response C	505-827-9126		
New Mexico State Emergency Opera	505-476-9635		
National			
National Emegency Response Cente	800-424-8802	4	
Medical			
Flight for Life- 4000 24th St.; Lubboc	806-743-9911		
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd	505-842-4433		
SB Air Med Service- 2505 Clark Carr	505-842-4949		
Other			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control	432-699-0139	or 432-563-3356	
Haliburton	575-746-2757		
B.J. Services		575-746-3569	





Technical Specifications

Connection Type: DWC/C-IS MS Casing standard]	Size(O.D.): 5-1/2 in	Weight (Wall): 20.00 lb/ft (0.361 in)		
	Material				
VST P110 EC	Grade				
125,000	Minimum	Yield Strength (p	si)		
135,000	Minimum	Ultimate Strength	n (psi)		
	Pipe Dim	ensions			
5.500	Nominal I	Pipe Body O.D. (ii	n)		
4.778		Pipe Body I.D.(in)			
0.361	Nominal Wall Thickness (in)				
20.00	Nominal Weight (lbs/ft)				
19.83	Plain End Weight (lbs/ft)				
5.828		Pipe Body Area (s	sq in)		
	Pipe Bod	y Performance I	Properties		
729,000	Minimum	Pipe Body Yield	Strength (lbs)		
12,090	Minimum	Collapse Pressur	re (psi)		
14,360	Minimum	Internal Yield Pre	essure (psi)		
13,100	Hydrostat	ic Test Pressure	(psi)		
	Connecti	on Dimensions			
6.115	Connectio	on O.D. (in)			
4.778	Connectio	on I.D. (in)			
4.653	Connectio	on Drift Diameter	(in)		
4.13	Make-up	Loss (in)			
5.828	Critical Ar	ea (sq in)			
100.0	Joint Effic	iency (%)			
	Connecti	on Performance	Properties		
729,000	Joint Stre	ngth (lbs)			
26,040	Reference	e String Length (f	t) 1.4 Design Factor		
728,000	API Joint	Strength (lbs)			
729,000	Compress	sion Rating (lbs)			
12,090	API Colla	pse Pressure Rat	ing (psi)		
14,360	API Interr	al Pressure Resi	stance (psi)		
104.2	Maximum	Uniaxial Bend R	ating [degrees/100 ft]		
		ated Field End T	-		
16,100		Final Torque (ft-ll			
18,600		Final Torque (ft-	•		
21,100	Connectio	on Yield Torque (f	t-lbs)		
For detailed information on performance properties, refer to DWC Connection Data No					



Grade:

VST P110 EC

VAM USA 4424 W. Sam Houston Pkwy. Suite 150 Houston, TX 77041 Phone: 713-479-3200 Fax: 713-479-3234 E-mail: VAMUSAsales@vam-usa.com



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

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

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DWC Connection Data Notes:

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



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

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1/11/2017 8:38:10 AM
Drilling Program

1. ESTIMATED TOPS

Formation Name	MD	TVD	Bearing
Quaternary	000	000	water
Rustler anhydrite	1329	1329	N/A
Salado salt	1858	1858	N/A
Castile	3745	3738	N/A
Base salt	5228	5217	N/A
Bell Canyon	5274	5263	hydrocarbons
Cherry Canyon	6340	6325	hydrocarbons
Brushy Canyon	7505	7488	hydrocarbons
Bone Spring Limestone	9043	9022	hydrocarbons
1 st Bone Spring carbonate	9874	9852	hydrocarbons
1 st Bone Spring sandstone	10051	10029	hydrocarbons
2 nd Bone Spring carbonate	10459	10438	hydrocarbons
2nd Bone Spring sandstone	10777	10756	hydrocarbons
3 rd Bone Spring carbonate	11293	11272	hydrocarbon
(КОР	11423	11401	-)
3 rd Bone Spring sandstone (Goal)	11925	11842	hydrocarbons
TD	16761	11974	-

2. NOTABLE ZONES

3rd Bone Spring sandstone is the goal. Hole will extend south of the last perforation point to allow for pump installation. All perforations will be \geq 330' from the dedication perimeter. Closest water well (C 02308) is 6093' southwest. Water bearing strata depth was reported in the 40' deep well. NMOSE estimated depth to groundwater is 175'.

3. PRESSURE CONTROL

<u>Equipment</u>

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attached BOP, choke manifold, co-flex hose, and speed head diagrams.

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



Testing Procedure

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

A third party company will test the BOPs.

After setting surface casing, and before drilling below the surface casing shoe, BOPE will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high. After setting 9-5/8" casing, pressure tests will be made to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2000 psi high.

Variance Request

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

Matador is requesting a variance to use a speed head for setting the intermediate (9-5/8") casing. In the case of running a speed head with landing mandrel for 9-5/8" casing, BOP test pressures after setting surface casing will be 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high before drilling below the surface shoe. The BOPs will not be tested again unless any flanges are separated. A diagram of the speed head is attached.

4. CASING & CEMENT

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

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collap se	Burst	Tension
17.5"	0′ - 1340'	0′ - 1340'	13.375" surface	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	0′ - 5220'	0′ – 5219′	9.625" inter. 1	40	J-55	BTC	1.125	1.125	1.8
8.75″	0′ – 16671′	0′ – 11974′	5.5" product. top	20	P-110	VAM DWC/C-IS HT Plus	1.125	1.125	1.8



Name	Туре	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Lead	340	1.75	595	13.5	Class C + Bentonite + 2% CaCl ₂ + 3% NaCl + LCM
	Tail	800	1.38	1104	14.8	Class C + 5% NaCl + LCM
TOC = 0'		1	00% Exce	55	Centra	lizers per Onshore Order 2.III.B.1f
Intermediate	Lead	1290	1.82	2348	12.8	Class C + Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	500	1.38	690	14.8	Class C + 5% NaCl + LCM
TOC = 0'		1	00% Exce	55	2 on b	tm jt, 1 on 2nd jt, 1 every 4th jt to surface
Production	Lead	935	2.35	2197	11.5	Class H + Fluid Loss + Dispersant + Retarder + LCM
	Tail	1600	1.39	2224	13.2	Class H + Fluid Loss + Dispersant + Retarder + LCM
TOC = 420	3	35% Exces	s		m jt, 1 on 2nd jt, 1 every other jt to of tail cement (500' above TOC)	

5. MUD PROGRAM

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

Casing	Hole Size	Туре	Interval (MD)	lb/gal	Viscosity	Fluid Loss
Surface	17 ½″	FW spud mud	0-1340	8.4	28	NC
Inter.	12 ¼″	Brine Water	1340-5220	10.0	30-32	NC
Production	8 3/4 _"	FW/Cut Brine	5220-16671	9.0	30-32	NC

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud logging program will be used from ≈5,220' to TD.



No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC. 7. <u>DOWN HOLE CONDITIONS</u>

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is \approx 5247 psi. Expected bottomhole temperature is \approx 158° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an H₂S safety package on all wells, an "H₂S Drilling Operations Plan" is attached. 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.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take \approx 3 months to drill and complete the well

EBNYTS WEST av PROVIDING PERMITS for LAND USERS

WAFMSS

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

SUPO Data Report

10/00/2010

APD ID: 10400032585

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

CL_133H_Existing_Road_Map_MAP1_20180730141811.pdf

Existing Road Purpose: ACCESS

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Max grade (%): 4

Will new roads be needed? YES

New Road Map:

CL_133H_New_Road_Map_MAP2_20180730141828.pdf

New road type: LOCAL,RESOURCE

Length: 4312.53 Feet Width (ft.): 30

Max slope (%): 0

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

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:

Well Number: 133H

Well Work Type: Drill

Submission Date: 07/30/2018

1 8.4

solution for the second second

Row(s) Exist? NO

Well Name: CHARLES LING FED COM

Well Number: 133H

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: Crowned and ditched

Road Drainage Control Structures (DCS) description: None

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:

CL_133H_Well_Map_MAP3_20180730141844.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: This Surface Use Plan is in support of Matador's Charles Ling well pad and production facilities. Matador will operate twelve (12) oil wells arranged across four (4) well pads (Slots 1, 2, 3,& 4), two (2) central tank batteries (CTBs) (E2 & W2), flow lines, a gas pipeline (E2 & W2), and associated access roads. Matador intends to construct two central tank batteries. The W2 CTB will service the Slot 1 & 2 pads while the E2 CTB will service the Slot 3 & 4 pads. Matador will install 489.85' of 4" buried flowline from Slots 1 & 2 to the W2 CTB and 616.32' from Slots 3 & 4 to the E2 CTB, for a total of 1,106.17'. Matador will install a total of 2,505.96' of ~6" O.D. buried gas pipeline to connect to an existing DCP gas line in the NWNE of Section 11. This pipeline will include two segments, 1,777.13' from the W2 CTB to the DCP tie-in point and 728.83' from the E2 CTB to the DCP tie-in point. **Production Facilities map:**

CL_133H_Production_Facilities_FIG1_20180730141855.pdf

Well Name: CHARLES LING FED COM

Well Number: 133H

Section 5 - Location and Types of Water Supp	ly
Water Source Table	
Water source use type: DUST CONTROL, INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING	Water source type: GW WELL
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): 17000	Source volume (acre-feet): 2.1911826
Source volume (gal): 714000	

Water source and transportation map:

·----

CL_133H_Water_Gravel_MAP4_20180730141907.pdf

Water source comments: Water will be trucked via existing roads from the existing Madera water station on private land in NWNE 21 -24s-34e. New water well? NO

New Water Well In	fo	
Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness o	f aquifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside	e diameter (in.):
New water well casing?	Used casing sour	ce:
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth	(ft.):
Well Production type:	Completion Metho	od:
Water well additional information:		

Well Name: CHARLES LING FED COM

Well Number: 133H

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: COG and NM One Call (811) will be notified before construction starts. Top 6" of soil and brush will be stockpiled south of the pad. Pipe racks will face north. Closed loop drilling system will be used. Caliche will be hauled from an existing caliche pit on private (Madera) land in SENW 6-25s-35e. **Construction Materials source location attachment:**

CL_133H_Construction_Methods_FIG1_20180730141950.pdf

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: R360's state approved (NM-01-0006) disposal site at Halfway, NM

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Steel tanks on pad

Well Name: CHARLES LING FED COM

Well Number: 133H

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

Cuttings area depth (ft.)

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:

CL_133H_Well_Site_Layout_FIG1_20180730142036.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: CHARLES LING FED COM

Multiple Well Pad Number: SLOT 3

Recontouring attachment:

CL_133H_Recontour_Plat_FIG2_20180730142051.pdf CL_133H_Interim_Reclamation_v1_FIG1_20180730142057.pdf Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Well pad proposed disturbance	Well pad interim reclamation (acres): 2 Well pad long term disturbance						
(acres): 4.5 Road proposed disturbance (acres):	Road interim reclamation (acres): 0	(acres): 2.5 Road long term disturbance (acres):					
1.04	Powerline interim reclamation (acres):	1.04					
Powerline proposed disturbance	0	Powerline long term disturbance					
(acres): 0 Pipeline proposed disturbance	Pipeline interim reclamation (acres): 0	(acres): 0 Pipeline long term disturbance					
(acres): 0	Other interim reclamation (acres): 0	(acres): 0					
Other proposed disturbance (acres): 3.37	Total interim reclamation: 2	Other long term disturbance (acres): 3.37					

Well Name: CHARLES LING FED COM

Well Number: 133H

Total proposed disturbance: 8.91

Total long term disturbance: 6.91

Disturbance Comments:

Reconstruction method: Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking each pad by 2 acres by removing caliche and reclaiming a 230' x 370' wide block on the east side of each pad. This will leave roughly 2.26 acres for operating 3 wells and a tractor-trailer turn around on each pad. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the land owner's requirements. **Topsoil redistribution:** Enough stockpiled topsoil will be retained on the south edge of the pad for Slots 1, 2, & 3 and on the east side of the pad for Slot 4. Top soil for the tank battery sites will be stockpiled on the south edge of each site. This soil will be used to cover the remainder of the pads and tank battery sites when the wells are plugged. Once the last well is plugged, then the rest of the pad and associated roads will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.

Soil treatment: None

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:

Well Name: CHARLES LING FED COM

Well Number: 133H

4	
Seed Management	
Seed Table	
Seed type:	Seed source:
Seed name:	
Source name:	Source address:
Source phone:	
Seed cultivar:	
Seed use location:	
PLS pounds per acre:	Proposed seeding season
Seed Summary	Total pounds/Acre:
Seed Type Pounds/	
First Name:	Last Name:
First Name:	Last Name:
Phone:	Email:
edbed prep:	
eed BMP:	
eed method:	
kisting invasive species? NO	
kisting invasive species treatment descri	ption:
xisting invasive species treatment attach	ment:
eed treatment plan description: To BLM s	standards
eed treatment plan attachment:	
onitoring plan description: To BLM standa	ards
onitoring plan attachment:	
uccess standards: To BLM satisfaction	
it closure description: No pit	
it closure attachment:	

Well Name: CHARLES LING FED COM

Well Number: 133H

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Mark and Annette McCloy Revocable Trust 2014 Phone: (432)940-4459

Surface use plan certification: NO Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: In process

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Fee Owner Address: C/O Mark McCloy PO Box 795 Tatum NM 88267 Email: Well Name: CHARLES LING FED COM

Well Number: 133H

Disturbance typ	: NEW ACCESS ROAD
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Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Mark and Annette McCloy Revocable Trust 2014 Phone: (432)940-4459 Fee Owner Address: C/O Mark McCloy PO Box 795 Tatum NM 88267 Email:

Surface use plan certification: NO Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: In process

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: OTHER Describe: Central Tank Battery Surface Owner: PRIVATE OWNERSHIP Other surface owner description: BIA Local Office:

Well Name: CHARLES LING FED COM

Well Number: 133H

BOR Local Office:	1
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:
Fee Owner: Mark and Annette McCloy Revocable	Fee Owner Address: C/O Mark McCloy PO Box 795 Tatum
Trust 2014	Fee Owner Address: C/O Mark McCloy PO Box 795 Tatum NM 88267 Email:
Trust 2014 Phone: (432)940-4459	NM 88267
Trust 2014	NM 88267
Trust 2014 Phone: (432)940-4459 Surface use plan certification: NO Surface use plan certification document:	NM 88267
Trust 2014 Phone: (432)940-4459 Surface use plan certification: NO Surface use plan certification document: Surface access agreement or bond: Agreement	NM 88267 Email:
Trust 2014 Phone: (432)940-4459 Surface use plan certification: NO Surface use plan certification document: Surface access agreement or bond: Agreement Surface Access Agreement Need description: Ir	NM 88267 Email:
Trust 2014 Phone: (432)940-4459 Surface use plan certification: NO Surface use plan certification document: Surface access agreement or bond: Agreement Surface Access Agreement Need description: In Surface Access Bond BLM or Forest Service:	NM 88267 Email:
Trust 2014 Phone: (432)940-4459 Surface use plan certification: NO Surface use plan certification document: Surface access agreement or bond: Agreement Surface Access Agreement Need description: Ir	NM 88267 Email:

Disturbance type: PIPELINE Describe: Surface Owner: PRIVATE OWNERSHIP Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office:

Operator Name: MATADOR PRODUCTION COMPANY Well Name: CHARLES LING FED COM Well Number: 133H **Military Local Office: USFWS Local Office: Other Local Office: USFS Region: USFS Forest/Grassland: USFS Ranger District:** Fee Owner: Mark and Annette McCloy Revocable Fee Owner Address: C/O Mark McCloy PO Box 795 Tatum NM 88267 Trust 2014 Email: Phone: (432)940-4459 Surface use plan certification: NO Surface use plan certification document: Surface access agreement or bond: Agreement Surface Access Agreement Need description: In process Surface Access Bond BLM or Forest Service: **BLM Surface Access Bond number:**

USFS Surface access bond number:

Section 12 - Other Information

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: On-site inspection was held on March 20, 2018 with Jesse Bassett (BLM).

Other SUPO Attachment

CL_Slot3_SUPO_072618_20180730142152.pdf



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):

PWD Data Report

08/2019



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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:

PWD disturbance (acres):

PWD disturbance (acres):



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

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?

Bond Info Data Report

0/08/2018

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:

Well Name: CHARLES LING FED COM

Well Number: 133H

	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	264 0	FSL	229 1	FEL	24S	33E	11	Aliquot NWSE	32.23212 5	- 103.5420 47	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 835 7	143 56	119 74
EXIT Leg #1	240	FSL	230 6	FEL	245	33E	11	Aliquot SWSE	32.22551 72	- 103.5420 628	LEA	1	NEW MEXI CO	F	FEE	- 835 7	167 61	119 74
BHL Leg / #1	240	FSL	230 6	FEL	24S	33E	11	Aliquot SWSE	32.22551 72	- 103.5420 628	LEA		NEW MEXI CO	F	FEE	- 835 7	167 61	119 74