		N N				
(Julie 2013)		Hobbs		OMB I Expires:	APPRO No. 1004-( January 31	0137
UNITED STATE DEPARTMENT OF THE I	INTERIOR	HOBBS	OC	. Lease Serial No	·····	
BUREAU OF LAND MAN APPLICATION FOR PERMIT TO [			2018	6. If Indian, Allote	e or Tribe	Name
	REENTER	RECEIN	<b>VED</b>	7. If Unit or CA A	greement,	Name and No.
	Other	Multiple Zone		8. Lease Name and		
				CHARLES LING 202H	FED COI	
2. Name of Operator MATADOR PRODUCTION COMPANY (228937	~)			9. API Well No. <b>30-02</b>	5-4	5298
3a. Address	3b. Phone N	Io. <i>(include area cod</i>	le)	10. Field and Pool	, or Explo	ratory (98134
5400 LBJ Freeway, Suite 1500 Dallas TX 75240	(972)371-5			WILDCAT / UPP		
<ol> <li>Location of Well (Report location clearly and in accordance At surface NENW / 360 FNL / 1875 FWL / LAT 32.238</li> </ol>		•		11. Sec., T. R. M. 6   SEC 11 / T24S / I		
At proposed prod. zone SESW / 240 FSL / 2307 FWL / 1			644197			
14. Distance in miles and direction from nearest town or post of 23 miles	tice*			12. County or Pari LEA	sh	13. State NM
15. Distance from proposed* location to nearest property or lease line. ft.	16. No of ac	cres in lease	17. Spaci 320	ing Unit dedicated to this well		
(Also to nearest drig, unit line, if any) 18 Distance from proposed location*	19. Propose	red Depth 20 B		I/BIA Bond No. in file		
to nearest well, drilling, completed, applied for, on this lease, ft. <b>30 feet</b>		d Depin / 16958 feet	/BIA Bond No. In III /B001079			
21. Elevations (Show whether DF, KDB, RT. GL, etc.) 3612 feet	22. Approxi 10/01/2018	mate date work will	23. Estimated dura 90 days	tion		
	24. Attac	hments		· · · · · · · · · · · · · · · · · · ·		
The following, completed in accordance with the requirements o (as applicable)	of Onshore Oil	and Gas Order No. 1	l, and the F	lydraulic Fracturing	rule per 4	3 CFR 3162.3-3
1. Well plat certified by a registered surveyor.		4. Bond to cover th	e operation	ns unless covered by a	an existing	bond on file (see
2. A Drilling Plan.		Item 20 above).		is uness covered by	an chisting	, oond on me (see
<ol> <li>A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office</li> </ol>		5. Operator certific 6. Such other site sp BLM.		rmation and/or plans a	as may be i	requested by the
25. Signature (Electronic Submission)	)	(Printed/Typed) Wood / Ph: (505)40	66-8120		Date 07/27/2	2018
Title President						
Approved by (Signature)		(Printed/Typed)			Date	
(Electronic Submission)	Christ Office	opher Walls / Ph: (	575)234-2	2234	10/05/2	2018
Title Petroleum Engineer	CARL					
Application approval does not warrant or certify that the applicat applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal of	or equitable title to the	nose rights	in the subject lease	which wou	ild entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r					any depa	rtment or agency
of the United States any false, fictitious or fraudulent statements	or representat	ions as to any matter				
				K= 10	Đ,	. Jix
		avn 19	INNS	, , ,	126	// "
	TAN INT	TH CONDIT	INUN	<i>11</i>	1	
Cartinued on page 2	ARD MT	14			a a t m = - + ! -	
				*(1	istructio	ons on page 2)
46	oval Date	: 10/05/2018				6
-						

# **Additional Operator Remarks**

## Location of Well

SHL: NENW / 360 FNL / 1875 FWL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.2384727 / LONG: -103.5441823 (TVD: 0 feet, MD: 0 feet)
 PPP: NESW / 2640 FSL / 2319 FWL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.232122 / LONG: -103.54419 (TVD: 12198 feet, MD: 14556 feet )
 PPP: NENW / 360 FNL / 1875 FWL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.2384727 / LONG: -103.5441823 (TVD: 0 feet, MD: 0 feet )
 BHL: SESW / 240 FSL / 2307 FWL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.2255181 / LONG: -103.5441823 (TVD: 0 feet, MD: 16958 feet )

# **BLM Point of Contact**

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

# **VAFMSS**

Well Type: OIL WELL

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

Application Data Report

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10/08/2018

APD ID: 10400032534
Operator Name: MATADOR PRODUCTION COMPANY
Well Name: CHARLES LING FED COM

Field/Pool or Exploratory? Field and Pool

### Submission Date: 07/27/2018

The second second

Well Number: 202H Well Work Type: Drill Rightyhted data withis the most begins the miss

Show Final Text

Section 1 - General		
APD ID: 10400032534	Tie to previous NOS?	Submission Date: 07/27/2018
BLM Office: CARLSBAD	User: Brian Wood	Title: President
Federal/Indian APD: FED	Is the first lease penetrated	d for production Federal or Indian? FED
Lease number: NMLC0063798	Lease Acres: 2480	
Surface access agreement in place	? Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreeme	nt:
Agreement number:		
Agreement name:		
Keep application confidential? NO		
Permitting Agent? YES	APD Operator: MATADOR	PRODUCTION COMPANY
Operator letter of designation:		
Operator Info Operator Organization Name: MAT		
Operator Address: 5400 LBJ Freew		
Operator PO Box:		<b>Zip:</b> 75240
Operator City: Dallas	State: TX	
Operator Phone: (972)371-5200		
Operator Internet Address: amonro	e@matadorresources.com	
Section 2 - Well In	formation	
Well in Master Development Plan?	NO Mater Developme	nt Plan name:
Well in Master SUPO? NO	Master SUPO nan	ne:
Well in Master Drilling Plan? NO	Master Drilling Pl	an name:
Well Name: CHARLES LING FED CO	OM Well Number: 202	2H Well API Number:

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

Field Name: WILDCAT

Pool Name: UPPER

Company periodically provides a a ming, completion and estimated first 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.

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# **Flowback Strategy**

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

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

## **Alternatives to Reduce Flaring**

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

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

Well Name: CHARLES LING FED COM

Well Number: 202H

### Pressure Rating (PSI): 10M

#### 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 until after setting 7-5/8" x 7" casing unless any flanges are separated. A diagram of the speed head is attached and 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.

**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, a minimum 5M BOPE system will be installed. 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. In the event that the rig drills multiple wells on the pad and the BOPs are removed after setting Intermediate 2 casing, a full BOP test will be performed when the rig returns and the 5M BOPE system is re-installed. After setting 7-5/8" x 7" Casing, pressure tests will be made to 250 psi low and 10,000 psi high. Annular will tested to 250 psi low and 5000 psi high.

#### **Choke Diagram Attachment:**

CL\_202H\_Choke\_20180727135738.pdf

Section 3 - Casing

### **BOP Diagram Attachment:**

CL\_202H\_BOP\_297\_20180727135810.pdf

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	3612		1340	J-55		OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
2	INTERMED IATE	8.75	7.625	NEW	API	Y	0	4920	0	4890	3612		4920	Р- 110		OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
3	INTERMED IATE	12.2 5	9.625	NEW	API	N .	0	5259	0	5220	3612	· · · ·	5259	J-55		OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
4	PRODUCTI ON	6.12 5	5.5	NEW	API	Y	0	11450	0	11385	3612		11450	₽- 110	-	OTHER - VAM DWC/C-IS MS	1.12 5	1.12 5	DRY	1.8	DRY	1.8

Well Number: 202H

#### **Casing Attachments**

Casing ID: 3 String Type: INTERMEDIATE

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

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

CL\_202H\_Casing\_Design\_Assumptions\_20180727140039.pdf

Casing ID: 4 String Type: PRODUCTION

**Inspection Document:** 

**Spec Document:** 

#### **Tapered String Spec:**

5.500in\_Casing\_Spec\_20180727140436.PDF

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

CL\_202H\_Casing\_Design\_Assumptions\_20180727140453.pdf

Casing ID: 5 String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

### **Tapered String Spec:**

7.625in\_VAM\_Casing\_Spec\_20180727140235.pdf

## Casing Design Assumptions and Worksheet(s):

CL\_202H\_Casing\_Design\_Assumptions\_20180727140604.pdf

# Well Name: CHARLES LING FED COM

### Well Number: 202H

			,			r · · · · · · · ·				1	
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		0	5259	500	1.38	14.8	690	100	Class C	5% NaCl + LC
PRODUCTION	Lead		0	1145 0	0	0	0	0	0	None	None
PRODUCTION	Tail		0	1145 0	500	1.17	15.8	585	10	Class H	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Lead		4920	1155 0	470	2.36	11.5	1109	75	ТХІ	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Tail		4920	1155 0	320	1.38	14.8	442	75	ТХІ	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Lead		1145 0	1695 7	0	0	0	0	0	None	None
PRODUCTION	Tail		1145 0	1695 7	500	1.17	15.8	585	10	Class H	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Lead		1155 0	1695 7	470	2.36	11.5	1109	75	ТХІ	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Tail		1155 0	1697 5	320	1.38	14.8	442	75	ТХІ	Fluid Loss + Dispersant + Retarder + LCM

# Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

 · · ·	Circ	ulating Medi	um T	able							
Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics

Well Name: CHARLES LING FED COM

Well Number: 202H

CL\_202H\_H2S\_Plan\_Slot2\_20180727141146.pdf

# Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CL\_202H\_Horizontal\_Drill\_Plan\_20180727141158.pdf

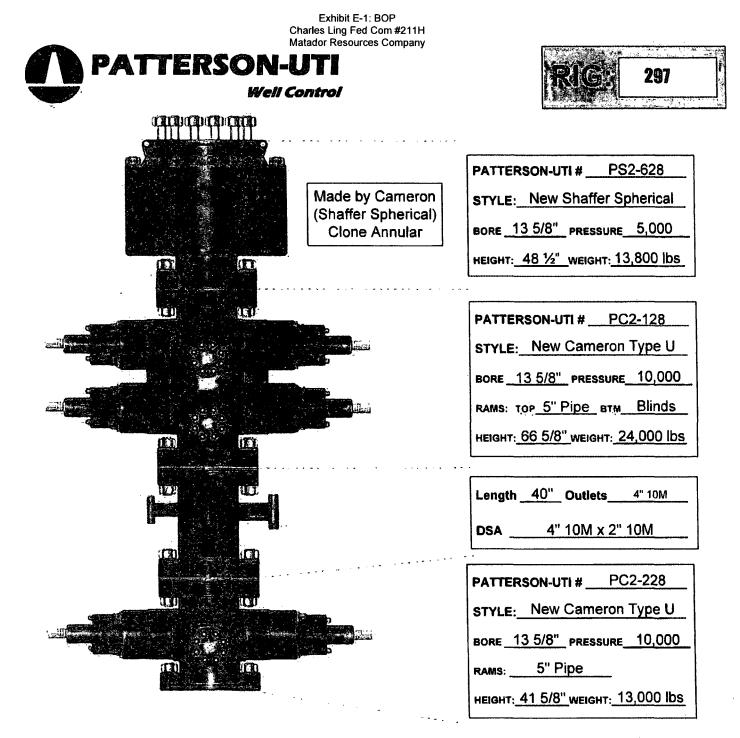
### Other proposed operations facets description:

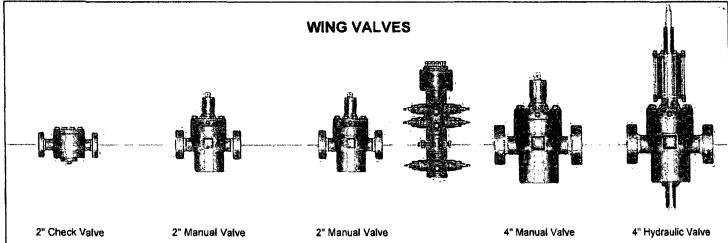
#### Other proposed operations facets attachment:

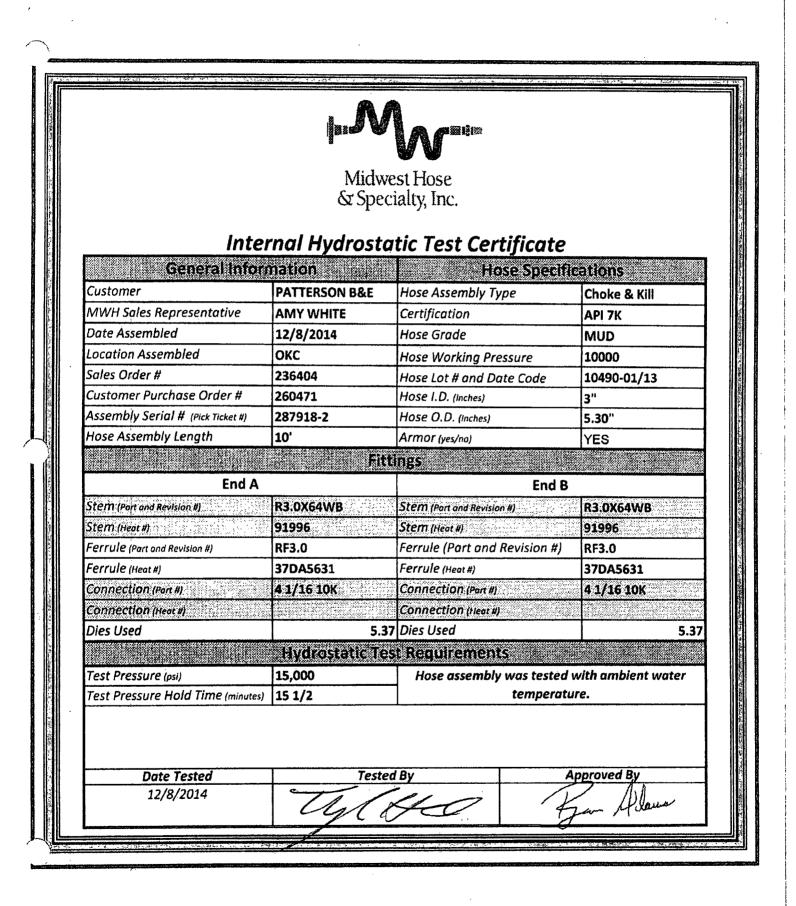
CL\_202H\_Speedhead\_Specs\_20180727141228.pdf 10M\_Well\_Control\_Plan\_20180727141316.pdf CL\_202H\_Drill\_Plan\_Revised\_20180905112944.pdf

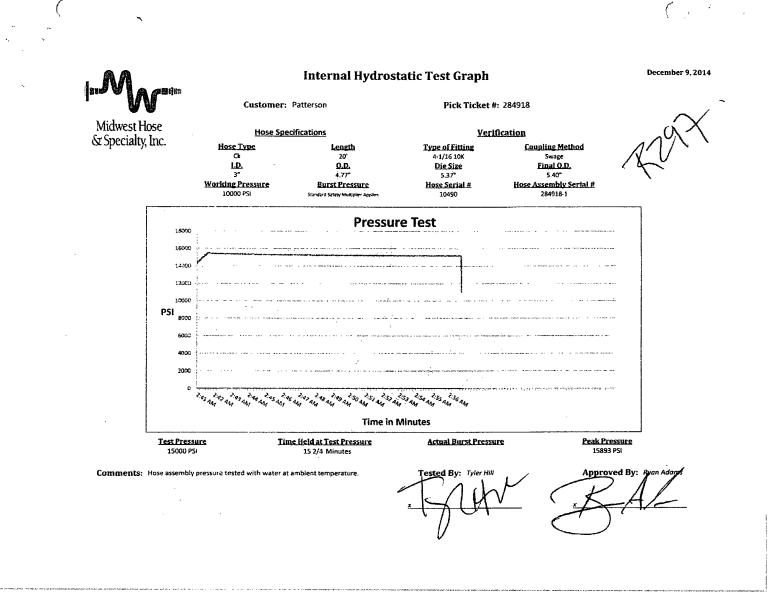
### Other Variance attachment:

CL\_202H\_Casing\_Variance\_Request\_20180727141634.pdf









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Midwest Hose & Specialty, Inc.							
Certificat	te of Conformity						
Customer: PATTERSON B&E	Customer P.O.# 260471						
Sales Order # 236404	Date Assembled: 12/8/2014						
Spe	ecifications	1.					
Hose Assembly Type: Choke & Kill							
Assembly Serial # 287918-1	Hose Lot # and Date Code	10490-01/13					
Hose Working Pressure (psi) 10000	Test Pressure (psi)	15000					
We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards. Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd							
Oklahoma City, OK 73129							
<b>Oklahoma City, OK 73129</b> Comments:							

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Midwest Hose & Specialty, Inc.

# Internal Hydrostatic Test Certificate

Customer	PATTERSON B&E	Hose Specific 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	
	Fitt	ings		
End A		End B		
Stem (Pari 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 (Hear #)		
Dies Used	5.37	Dies Used	5.37	
	Hydrostatic Tes	tRequirements		
Test Pressure (psi)	15,000	Hose assembly was tested v	vith amblent water	
Test Pressure Hold Time (minutes)	16 3/4	temperatu	re.	

# **Technical Specifications**

Connection Type: DWC/C-IS MS Casing standard **Size(O.D.):** 5-1/2 in

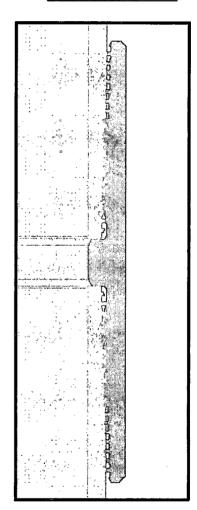
Minimum Yield Strength (psi) Minimum Ultimate Strength (psi)

Weight (Wall): 20.00 lb/ft (0.361 in)

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: <u>VAMUSAsales@vam-usa.com</u>



VST P110 EC	
125,000	
135.000	

### Pipe Dimensions

Material

Grade

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

# Pipe Body Performance Properties

- 729,000 Minimum Pipe Body Yield Strength (lbs)
- 12,090 Minimum Collapse Pressure (psi)
- 14,360 Minimum Internal Yield Pressure (psi)
- 13,100 Hydrostatic Test Pressure (psi)

### **Connection Dimensions**

- 6.115 Connection O.D. (in)
- 4.778 Connection I.D. (in)
- 4.653 Connection Drift Diameter (in)
- 4.13 Make-up Loss (in)
- 5.828 Critical Area (sq in)
- 100.0 Joint Efficiency (%)

### **Connection Performance Properties**

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

# Appoximated Field End Torque Values

- 16,100 Minimum Final Torque (ft-lbs)
- 18,600 Maximum Final Torque (ft-lbs)
- 21,100 Connection Yield Torque (ft-lbs)

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

### **Surface Casing**

### Collapse: DF<sub>c</sub>=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<sub>b</sub>=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<sub>t</sub>=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: DFc=1.125

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

Burst: DF<sub>b</sub>=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<sub>t</sub>=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).

### Intermediate #2 Casing

Collapse: DF<sub>c</sub>=1.125

• Partial 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. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).

Issued on: 12 Janv. 2017 by T. DELBOSCO

VRCC 16-1177 Rev02 for Houston Field Service

DATA ARE INFORMATIVE ONLY. BASED ON SI\_PD-101836 P&B

ANT CANTR' **Connection Data Sheet** 

ÓD. Weight	Wall Th. Grade	API Drift	Connection
7 5/8 in. 29.70 lb/ft	0.375 in. P110 EC	6.750 in.	VAM® HTF NR

PIPE PRO	PERTIES
Nomînal Ob	7.62 <u>5</u> m
Nominal ID	6.875 in.
Nominal Gloss, Section Area	8.541 sqin
Grade Type	Enhanced API
Min. Yield Strength	125 851
Max. Yield Strength	140 ksi
Min Ultimate feasile Strength.	195. Keji
Tensile Yield Strength	1 068 kib
Internal Yield Pressure	10) 760) psi
Collapse pressure	7 360 psi

Gonnaction Type	Premium Integral/Flust
Connection OD (nom)	7,701 in.
Connection (D) (norm),	6.782 10
Make-Up Loss	4.657 in.
Gilleal Gloss Section	4.97al sqip.
Tension Efficiency	58 % of pipe
Compression Efficiency	<i>12,7</i> % oΩpipe
Compression Efficiency with Sealability	34.8 % of pipe
Internal Pressure Efficiency	100) % of pipe
External Pressure Efficiency	100 % of pipe

CONNECTION PERFO	<ol> <li>Manual and a second s second second se</li></ol>
Tensile, Weld Strength	619 KIB
Compression Resistance	778 klb
Gompression, with Sealability	37/2 KB
Internal Yield Pressure	10 760 psi
lixternal Pressure, Resistance	7 360) pets
Max. Bending	44 º/100f
Max, Bending with Sealability	17 9/1001

TORQUE V	ALUES
Mini. Make tip toxicite	9 600 ftalb,
Opti. Make-up torque	11 300 ft.lb
Max, Make-up, forque	13000 (676
Max. Torque with Sealability	58 500 ft.lb
Max. Torsional Value	76) 000 ft Ib

VAM\* HTF™ (High Torque Flush) is a flush OD integral connection providing maximum clearance along with torque strength for challenging applications such as extended reach and slim hole wells, drilling liner / casing, liner rotation to acheive better cementation in highly deviated and critical High Pressure / High Temperature wells.

Looking ahea on the outcoming testing industry standards, VAM® decided to create an upgraded design and launch on the market the VAM® HTF-NR as the new standard version of VAM® extreme high torque flush connection. The VAM® HTF-NR has extensive tests as per API RP 5C5:2015 CAL II which include the gas sealability having load points with bending, internal pressure and high temperature at 135°C.

Do you need help on this product? - Remember no one knows VAM® like VAM®

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Other Connection Data Sheets are available at www.vamservices.com

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china@vamfieldservice.com

Over 180 VAM<sup>®</sup> Specialists available worldwide 24/7 for Rig Site Assistance



Vallourec Group

#### Burst: DF<sub>b</sub>=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 (0.47 psi/ft), which is a more conservative backup force than pore
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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).

# **Production Casing**

Collapse: DF<sub>c</sub>=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 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 (0.65 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

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# 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



Issued on: 12 Janv. 2017 by T. DELBOSCO

VRCC 16-1177 Rev02 for Houston Field Service

DATA ARE INFORMATIVE ONLY. BASED ON SI\_PD-101836 P&B Connection Data Sheet

OD I III	Weight Wall Th	Grade AF	I Drift Connection
7 5/8 in. 2	9.70 lb/ft 0.375 in	. P110 EC 6.	750 In. VAM® HTF NR

PIPE PROPE	RTIES
Nominal OD	7:625 in.
Nominal ID	6.875 in.
Nominal Gross Section Area	8,54) sqin
Grade Type	Enhanced API
Mini Vield Strength	1/25 ksj
Max. Yield Strength	140 ksi
Min Witimate Tensile Strength	185 ksi
Tensile Yield Strength	1 068 klb
Internal Yield Pressure	10) 760) psi
Collapse pressure	7 360 psi

CONNECTION PRO	PERTIES
Connection Type	Premijom Integrali Flush
Connection OD (nom)	7.701 in.
Gonnection (D) (nom)	6.782 in.
Make-Up Loss	4.657 In.
Grilical Gross Section	4.97d) sqin.
Tension Efficiency	58 % of pipe
Compression Eligency	/217 % of pipe
Compression Efficiency with Sealability	34.8 % of pipe
Internal Pressure Efficiency	100) % of pipe
External Pressure Efficiency	100 % of pipe

Tensile, Yield Strength	619 Kib
Compression Resistance	778 kib
Gompression with Stalability	37/21 K[fb
Internal Yield Pressure	10 760 psi
oxternal Pressure Rasistance	7· 360) psi
Max. Bending	44 º/100
Max, Bending with Sealability	17 %100

TORQUE V	ALUES
Min), Make up torque	9500 A.H.
Opti. Make-up torque	11 300 ft.lb
Max, Make-up torque	13 QOO ft.16
Max. Torque with Sealability	58 500 ft.lb
Max, Torsional Value	Zel QQO (NID

VAM<sup>●</sup> HTF<sup>™</sup> (High Torque Flush) is a flush OD integral connection providing maximum clearance along with torque strength for challenging applications such as extended reach and slim hole wells, drilling liner / casing, liner rotation to acheive better cementation in highly deviated and critical High Pressure / High Temperature wells.

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Do you need help on this product? - Remember no one knows VAM® like VAM®

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Over 180 VAN® Specialists available workwide 24/7 for Rig Site Assistance
Other Connection Data Sheets are available at www.vamservices.com

Vallourec Group



#### **BLANKING DIMENSIONS**

#### **Blanking Dimensions**

(1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.

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

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

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



# Well Control Plan For 10M MASP Section of Wellbore

### **Component and Preventer Compatibility Table:**

The table below covers the drilling and casing of the 10M MASP portion of the well and outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Component	OD OD	Preventer	RWP
Drill pipe	4"		
HWDP	4"		
Jars/Agitator	4.75-5"	Lower 3.5-5.5" VBR	1014
Drill collars and MWD tools	4.75-5.25"	Upper 3.5-5.5" VBR	10M
Mud Motor	4.75-5.25"		
Production casing	4.5-5.5"		
ALL	0-13.625"	Annular	5M
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram with compatible range listed in chart HWDP = Heavy Weight Drill Pipe MWD = Measurement While Drilling

#### **Well Control Procedures**

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the Bottom Hole Assembly (BHA) through the Blowout Preventers (BOP). The maximum pressure at which well control is transferred from the annular to another compatible ram is 3,000 psi.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps and stop rotary
- 4. Shut-in well with the annular preventer (The Hydraulic Control Remote (HCR) valve and choke will already be in the closed position)
- 5. Confirm shut-in
- 6. Notify tool pusher and company representative
- 7. Read and record the following:
  - SIDPP and SICP
  - Pit gain
  - Time of shut in
- 8. Regroup and identify forward plan
- 9. If pressure has increased or is anticipated to increase above 3,000 psi, confirm spacing and close the upper pipe rams

### General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close



# Well Control Plan For 10M MASP Section of Wellbore

- f. Notify tool pusher and company representative
- g. Read and record the following:
  - SIDPP and SICP
  - Pit gain
  - Time of shut in
- h. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available:
  - a. Sound alarm (alert crew)
  - b. Stab crossover and full opening safety valve and close
  - c. Space out drill string with the upset just beneath the compatible pipe ram
  - d. Shut-in well using compatible pipe rams (The HCR valve and choke will already be in the closed position)
  - e. Confirm shut-in
  - f. Notify tool pusher and company representative
  - g. Read and record the following:
    - SIDPP and SICP
      - Pit gain
      - Time of shut in
  - h. Regroup and identify forward plan
- 3. With BHA in the stack and no compatible ram preventer and pipe combo immediately available:
  - a. Sound alarm (alert crew)
  - b. If possible to pick up high enough, pull BHA clear of the stack
    - i. Follow "No Pipe in Hole" procedure above
  - c. If impossible to pick up high enough to pull string clear of the stack:
    - i. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
    - ii. Space out drill string with the upset just beneath the compatible pipe ram
    - iii. Shut-in well using compatible pipe rams (The HCR valve and choke will already be in the closed position)
    - iv. Confirm shut-in
    - v. Notify tool pusher and company representative
    - vi. Read and record the following:
      - SIDPP and SICP
      - Pit gain
      - Time of shut in
    - vii. Regroup and identify forward plan

# **Well Control Drills**

Well control drills are specific to the rig equipment, personnel, and operations. Each crew will execute one drill weekly relevant to ongoing operations, but will make a reasonable attempt to vary the type of drills. The drills will be recorded in the daily drilling log.

# 3. PRESSURE CONTROL

## **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.

# 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, a minimum 5M BOPE system will be installed. 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. In the event that the rig drills multiple wells on the pad and the BOPs are removed after setting Intermediate 2 casing, a full BOP test will be performed when the rig returns and the 5M BOPE system is re-installed. After setting 7-5/8" x 7" Casing, pressure tests will be made to 250 psi low and 10,000 psi high. Annular will tested to 250 psi low and 5000 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



Matador Production Company Charles Ling Fed Com 202H SHL 360' FNL & 1875' FWL BHL 240' FSL & 2307' FWL Sec. 11, T. 24 S., R. 33 E., Lea County, NM

Name	Туре	Sacks	Yield	Cu. Ft.	Weight	Blend	
Surface	Lead	800	1.82	1456	13.5	Class C + Bentonite + 2% CaCl <sub>2</sub> + 3% NaCl + LCM	
	Tail	340	1.38	469.2	14.8	Class C + 5% NaCl + LCM	
TOC = GL	1	00% Exces	SS	Centra	lizers per Onshore Order 2.III.B.1f		
Intermediate 1	Lead	1290	1.82	2348	12.8	Class C + Bentonite + 2% CaCl <sub>2</sub> + 3% NaCl + LCM	
	Tail	500	1.38	690	14.8	Class C + 5% NaCl + LCM	
TOC = GL	1	100% Excess			tm jt, 1 on 2nd jt, 1 every 4th jt to surface		
Intermediate	Lead	470	2.36	1109	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM	
2	Tail	320	1.38	442	14.8	TXI + Fluid Loss + Dispersant + Retarder + LCM	
TOC = 420	0' 7		75% Excess		2 on btm jt, 1 on 2nd jt, 1 every other jt top of tail cement (500' above TOC)		
Production	Tail	500	1.17	585	15.8	Class H + Fluid Loss + Dispersant + Retarder + LCM	
TOC = 1145	50'	1	0% Exces	S	2 on btm jt, 1 on 2nd jt, 1 every third jt t top of curve		

# 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.

Туре	Interval (MD)	lb/gal	Viscosity	Fluid Loss
fresh water spud	0' - 1340'	8.3	28	NC
brine water	1340' - 5220'	10.0	30-32	NC
fresh water & cut brine	5220' - 12437'	9.0	30-31	NC
OBM	12437′ – 16957′	12.5	50-60	<10



# <u>Variance Request</u>

Matador requests a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing which will be less than the 0.422" stand-off regulation. Matador has met with Christopher Walls and Mustafa Haque as well as other BLM representatives and determined that this would be acceptable as long as the 7-5/8" Flush casing was run throughout the entire 300' cement tie back section between 9-5/8" and 7-5/8" casing.

Well Name: CHARLES LING FED COM

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\_202H\_Well\_Map\_MAP3\_20180727141737.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\_202H\_Production\_Facilities\_FIG1\_20180727141746.pdf

Well Name: CHARLES LING FED COM

Well Number: 202H

#### 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\_202H\_Construction\_Methods\_FIG1\_20180727141957.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: 202H

## Total proposed disturbance: 9.92

# Total long term disturbance: 7.92

#### **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: 202H

# 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 Address: C/O Mark McCloy PO Box 795 Tatum

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

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

) :ument:

NM 88267 Email:

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:

Well Name: CHARLES LING FED COM

Well Number: 202H

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

**USFS Ranger District:** 

Use APD as ROW?

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:

Section 12 - Other Information

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

**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\_202H\_Slot2\_SUPO\_20180727142249.pdf

Matador Production Company, LLC Charles Ling Fed Com Well Project Sec. 11, T. 24S., R. 33E. Lea County, New Mexico

# CHARLES LING FED COM SURFACE USE PLAN

Well Pad Slot 1: 131H, 201H, & 211H Well Pad Slot 2: 132H, 202H, & 212H Well Pad Slot 3: 133H, 203H, & 213H Well Pad Slot 4: 134H, 204H, & 214H

# 1. DIRECTIONS & EXISTING ROADS (See Maps 1 & 2)

From the junction of NM State Highway 128 and Lea County Road 2A... Go North 3.4 miles on paved CR 2A, Then turn right and go East on unmarked lease road for 1.25 miles, Then turn right on to new well access road

Roads on lease will be maintained to Gold Book standards. For short and long term maintenance, the existing well lease road from the well pad to CR 2A will be maintained jointly by Matador and other operators that regularly use the road. These roads are entirely on State land. For County Road 2A or roads considered as collector roads, the operator will defer to Lea County or the Roads Committee for maintenance determinations. If existing roads require reconstruction due to activity associated with this project, or if required by the New Mexico State Land Office, the operator will upgrade existing non-county road(s) according to State guidelines.

Well location is approximately 23 air miles Northwest of Jal, New Mexico.

# 2. <u>ROAD TO BE UPGRADED</u> (See Map 2)

A total of **4,312.53**' of new road will be built between the existing lease road in the SWSW of Section 2 and the Slot 4 pad in the NWNW of Section 11. Approximately **147.27**' of new road will be built on State lands in in the SWSW of Section 2 and **4,165.26**' of new road will be built on private lands in Section 11. No roads will be built on BLM surface. Topsoil and brush will be windowed beside the road. Road will be crowned ( $\approx 0.04$  ft/ft), ditched, and have a  $\approx 14$ ' wide running surface. Maximum disturbed road width will be 30'. Maximum cut or fill = 3'. Maximum grade = 4%. Roads will be surfaced with caliche.

# 3. EXISTING WELLS (See Map 3)

Existing oil, gas, and P & A wells are within a mile. No existing disposal or injection wells are within a one mile radius. <u>The closest existing well is an oil well and is located</u> <u>approximately 940' to the north.</u> There are no fresh water wells within one mile.



# 4. <u>PROPOSED PRODUCTION FACILITIES</u> (See Fig. 1 – Production Layout/Interim Rec.)

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.

See table in Section 10 (below) for a detailed break-down of length and acreage for each pad slot and facility.

# 5. WATER SUPPLY (See Map 4)

Water will be trucked via existing roads from the existing Madera water station on private land in NWNE 21-24s-34e.

# 6. <u>CONSTRUCTION NOTICES, MATERIALS, & METHODS</u> (See Fig. 2 – Cut & Fill)

COG and NM One Call (811) will be notified before construction starts. Top  $\approx$ 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.



# Matador Production Company, LLC Charles Ling Fed Com Well Project Sec. 11, T. 24S., R. 33E. Lea County, New Mexico

<b>F</b> + - 111+	Disturbance	Pad	Roa	d	Gas L	ine	Flowl	ine	
Facility	Interval	ас	ft	ас	ft	aç	ft	ac	
	Short-term	4.5		-	-	-	-		Total Slot 1 Long-term
Slot 1	Interim Rec	2	-		-		-	-	(incl. rd, gas, flow, & CTB)
	Long-term	2.5	284.29	0.20	-	in a c	243.94	0.17	6.83
	Short-term	4.5 ,	-		<i>#</i>		-		Total Slot 2 Long-term
Slot 2	Interim Rec	2;				***			(incl. rd, gas, flow, & CTB)
Ĩ	Long-term	2.5	1,859.76	1.28	-	-	245.91	0.17	7.92
	Short-term	4.5	-	. <u>-</u> .	-	-		-	Total Slot 3 Long-term
Slot 3	Interim Rec	2							(incl. rd, gas, flow, & CTB)
r	Long-term	2.5	1,511.38	1.04	-		171.08	0.12	6.91
	Short-term	4.5	-	- 1 - <b>-</b> 2 - 2 - 2			-		Total Slot 4 Long-term
Slot 4	Interim Rec	2							(incl. rd, gas, flow, & CTB)
	Long-term	2.5	657.10	0.45	-	-	445.24	0.31	7.23
	Short-term	2.75	-		-		-		Total E2 CTB Long-term
CTB E2	Long-term	2.75	-		728.83	0.50	-		2.75
СТВ	Short-term	2.75	-		-		-	-	Total W2 CTB Long-term
W2	Long-term	2.75	-	•	1,777.13	1.22	-	· · · ·	2.75
Total Pro	ject Short-term	23.5	-	·	-	j.e.			
Total Pro	ject Long-term	15.50	4,312.53	2.97	2,505.96	1.72	1,106.17	0.76	

# **Charles Ling Fed Com Short & Long Term Disturbance Figures**

# 11. <u>SURFACE OWNER</u> (See Map 3)

All construction for Matador's well pads, pipelines, and CTBs will be on lease and on fee lands owned by Mark McCloy, whose address is PO BOX 795, Tatum NM 88267.

# 12. OTHER INFORMATION

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





#### 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):** 

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:

PWD disturbance (acres):

Injection well name:

# Injection well API number:

PWD disturbance (acres):