Form 3160-3 (June 2015)

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

5. Lease Serial No.

UNITED STATES

DEPARTMENT OF THE INTERIOR OCT 2 4 2018

BUREAU OF LAND MANA	GEMENT	20	10	NMLC0063798	
APPLICATION FOR PERMIT TO DR	RILL OR	RECEIVE	ED .	6. If Indian, Allotee	or Tribe Name
1a. Type of work: ✓ DRILL ☐ REI 1b. Type of Well: ✓ Oil Well ☐ Gas Well ☐ Oth	ENTER	Multiple Zone		8. Lease Name and V CHARLES LING FE 132H	ED COM (322239)
2. Name of Operator MATADOR PRODUCTION COMPANY (228937))			9. API Well No. 70-025-	4 5 2 9 4 or Exploratory (964)
	3b. Phone N (<mark>972)371-5</mark> 2	o. (include area codo 200	e)	10. Field and Pool, o RED HILLS / BONE	
 Location of Well (Report location clearly and in accordance wi At surface NENW / 360 FNL / 1905 FWL / LAT 32.23838 At proposed prod. zone SESW / 240 FSL / 1649 FWL / LA 	889 / LONG	3 -103.5454911	463267	11. Sec., T. R. M. or SEC 11 / T24S / R3	Blk. and Survey or Area 33E / NMP
14. Distance in miles and direction from nearest town or post office 23 miles	e*			12. County or Parish LEA	13. State NM
location to nearest 360 feet	16. No of ac 2480	res in lease	17. Spaci:	ng Unit dedicated to th	sis well
to nearest well, drilling, completed,	19. Proposed 12006 feet	d Depth / 16779 feet		BIA Bond No. in file	
	22. Approxi 09/01/2018	mate date work will	start*	23. Estimated duration 90 days	on
	24. Attac	hments	-	-	
The following, completed in accordance with the requirements of C (as applicable)	Onshore Oil	and Gas Order No. 1	, and the l	lydraulic Fracturing ru	de per 43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	-	Item 20 above). 5. Operator certific	ation.	· ·	existing bond on file (see
25. Signature (Electronic Submission)	í	(Printed/Typed) Wood / Ph: (505)46	66-8120	1	Date 07/23/2018
Title President	•				
Approved by (Signature) (Electronic Submission)	l l	(Printed/Typed) opher Walls / Ph: (575)234-2		Date 10/05/2018
Title Petroleum Engineer	Office CARL				
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon.	holds legal o	or equitable title to the	ose rights	in the subject lease wh	ich would entitle the

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.

pproval Date: 10/05/2018

*(Instructions on page 2)

(Continued on page 2)

NSL

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 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.

(Continued on page 3) (Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: NENW / 360 FNL / 1905 FWL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.2383889 / LONG: -103.5454911 (TVD: 0 feet, MD: 0 feet)

PPP: NESW / 2640 FSL / 1693 FWL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.2383889 / LONG: -103.546215 (TVD: 12006 feet, MD: 14377 feet)

PPP: NENW / 360 FNL / 1905 FWL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.2383889 / LONG: -103.5454911 (TVD: 0 feet, MD: 0 feet)

BHL: SESW / 240 FSL / 1649 FWL / TWSP: 24S / RANGE: 33E / SECTION: 11 / LAT: 32.2255189 / LONG: -103.5463267 (TVD: 12006 feet, MD: 16779 feet)

BLM Point of Contact

Name: Sipra Dahal

Title: Legal Instruments Examiner

Phone: 5752345983 Email: sdahal@blm.gov

Approval Date: 10/05/2018

Review and Appeal Rights

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

(Form 3160-3, page 4)



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

Application Data Report

APD ID: 10400032335

Submission Date: 07/23/2018

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM

Well Type: OIL WELL

Well Number: 132H

Well Work Type: Drill

Show Final Text

Section 1 - General

APD ID:

10400032335

Tie to previous NOS?

Submission Date: 07/23/2018

BLM Office: CARLSBAD

User: Brian Wood

Title: President

Federal/Indian APD: FED

Is the first lease penetrated 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 agreement:

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: MATADOR PRODUCTION COMPANY

Operator Address: 5400 LBJ Freeway, Suite 1500

Zip: 75240

Operator PO Box:

Operator City: Dallas

State: TX

Operator Phone: (972)371-5200

Operator Internet Address: amonroe@matadorresources.com

Section 2 - Well Information

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: CHARLES LING FED COM

Well Number: 132H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: RED HILLS

Pool Name: BONE SPRING,

NORTH

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, CO2, OIL

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM Well Number: 132H

Describe other minerals:

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

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: Number: SLOT 2 CHARLES LING FED COM

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Work Type: Drill
Well Type: OIL WELL
Describe Well Type:
Well sub-Type: INFILL

Describe sub-type:

Distance to town: 23 Miles

Distance to nearest well: 30 FT

Distance to lease line: 360 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat:

CL_132H_C102_etal_20180723091414.pdf

Well work start Date: 09/01/2018

Duration: 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 18329

	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	360	FNL	190 5	FWL	248	33E	11	Aliquot NENW	32.23838 89	- 103.5454 911	LEA	1	NEW MEXI CO	F		361 2	0	0
KOP Leg #1	612	FNL	172 2	FWL	24S	33E	11	Aliquot NENW	32.23769 7	- 103.5461 21	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0 063798	- 782 1	114 44	114 33
PPP Leg #1	360	FNL	190 5	FWL	248	33E	11	Aliquot NENW	32.23838 89	- 103.5454 911	LEA	1	NEW MEXI CO	F		361 2	0	0

Company periodically provides a untiling, 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.

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



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

Drilling Plan Data Report

10/08/2018

tighighted dak

APD ID: 10400032335

Submission Date: 07/23/2018

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM

Well Number: 132H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

ormation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing
1	QUATERNARY	3612	0	0	Littlelogico	USEABLE WATER	No
·	2011.27.0.0			-			
2	RUSTLER ANHYDRITE	2292	1320	1320		NONE	No
3	SALADO	1762	1850	1850	SALT	NONE	No
4	CASTILE	-129	3741	3746		NONE	No
5	BASE OF SALT	-1604	5216	5225		NONE	No
6	BELL CANYON	-1646	5258	5268		NATURAL	No
						GAS,CO2,OIL	
7	CHERRY CANYON	-2688	6300	6310		NATURAL	No
						GAS,CO2,OIL	
8	BRUSHY CANYON	-3882	7494	7504		NATURAL	No
						GAS,CO2,OIL	·
9	BONE SPRING	-5405	9017	9027	LIMESTONE	NATURAL	No
						GAS,CO2,OIL	
10	BONE SPRING 1ST	-6269	9881	9891	OTHER : Carbonate	NATURAL	No
						GAS,CO2,OIL	
11	BONE SPRING 1ST	-6447	10059	10069	SANDSTONE	NATURAL	No
						GAS,CO2,OIL	
12	BONE SPRING 2ND	-6799	10411	10421	OTHER : Carbonate	NATURAL	No
						GAS,CO2,OIL	
13	BONE SPRING 2ND	-7172	10784	10794	SANDSTONE	NATURAL	No
}						GAS,CO2,OIL	
14	BONE SPRING 3RD	-7674	11291	11302	OTHER : Carbonate	NATURAL	No
						GAS,CO2,OIL	
15	BONE SPRING 3RD	-8248	11860	11926	SANDSTONE	NATURAL	Yes
		1				GAS,CO2,OIL	

Section 2 - Blowout Prevention

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM Well Number: 132H

Fressunc Reting ((FSI): 10ML

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

Venture magnest, Maisdorne pests a valance to dillalis will using a collective believed the 1904 and chate hardical. Wannischer destinations the beste to be enclosed. In his position has no not available, then one of eyest of higher ening will be used. Operator requests a various to use a fix Annular and lecture 250 ps lovend side per high. Mendlar is requesting a various to use a specification senting some casing. In the essection and lovend test so that has a sent good for high science of the source of the senting surface as a part of the sent source of the senting below the curtain show. The Perov end that he conducted below only any flanges are separated. A degran of the open head to although the conducted below the culting outling under all extra charges. For will be inspected and opening yether and to the cult properties casing, and before difficult the culting exclusive and the conducted below the equipped with a full opening yether send to the culting and collars will be available on the lighter the surface esting the soul by its feet to 250 ps low and 10000 ps high. Annular will be tested to 250 ps low and 10000 ps high.

Choke Diagram Attachment:

CL 132H Choke 20180905111447.pdf

BOP Diagram Attachment:

CL 132H BOP 297 20180723095909.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1350	0	1350	3612		1350	J-55		OTHER - BTC	l _	1.12 5	DRY	1.8	DRY	1.8
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5300	0	5291	3612		5300	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	16779	0	12006	3612		16779	P- 110		OTHER - VAM DWC/C-IS HT Plus	1.12 5	1.12 5	DRY	1.8	DRY	1.8

Casing Attachments

Operator Name: MATADOR PRODUCTION COMPANY
Well Name: CHARLES LING FED COM Well Number: 132H
Casing Attachments
Casing ID: 1 String Type:SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
CL_132H_CasingDesignAssumptions_3string_BS_20180723100341.pdf
Casing ID: 2 String Type: INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
CL_132H_CasingDesignAssumptions_3string_BS_20180723100349.pdf

Casing ID: 3 String Type: PRODUCTION Inspection Document:
mspection document.
Spec Document:
Tapered String Spec:

Section 4 - Cement

Casing Design Assumptions and Worksheet(s):

5.500in_Casing_Spec_20180723101338.PDF

 $CL_132H_CasingDesignAssumptions_3string_BS_20180723100357.pdf$

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM Well Number: 132H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1350	340	1.75	13.5	595	100	Class C	Bentonite + 2% CaCl2 + 3% NaCl + LCM
SURFACE	Tail		0	1350	800	1.38	14.8	1104	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		0	5300	1290	1.82	12.8	2348	100	Class C	Bentonite + 1% CaCl2 + 8% NaCl + LCM
INTERMEDIATE	Tail		0	5300	500	1.38	14.8	690	100	Class C	5% NaCl + LC
PRODUCTION	Lead		0	1677 9	935	2.35	11.5	2197	35	Class H	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Tail		0	1677 9	1600	1.39	13.2	2224	35	Class H	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.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1350	OTHER : Fresh water spud	8.4	8.4							
5300	1677 9	OTHER : Fresh water & cut brine	9	9							
1350	5300	OTHER : Brine water	10	10							

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM Well Number: 132H

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: 5160

Anticipated Surface Pressure: 2518.67

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_132H_H2S_Plan_Slot2_20180723100943.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CL_132H_Horizontal_Drill_Plan_20180723101153.pdf

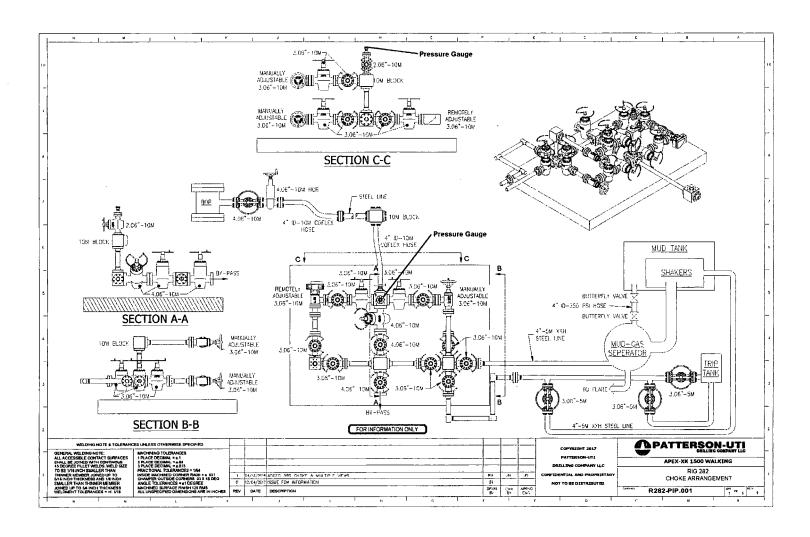
Other proposed operations facets description:

Other proposed operations facets attachment:

CL_132H_Speedhead_Specs_3string_20180723101311.pdf
CL_132H_Drill_Plan_Revised_20180905111546.pdf

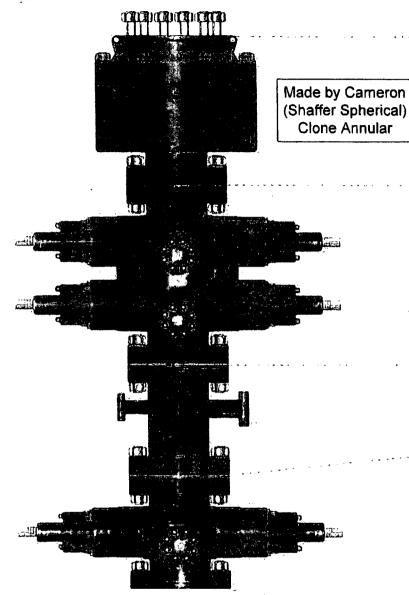
10M_Well_Control_Plan_20180905111621.pdf

Other Variance attachment:



PATTERSON-UTI Well Control





PATTERSON-UTI # PS2-628

STYLE: New Shaffer Spherical

BORE 13 5/8" PRESSURE 5,000

HEIGHT: 48 ½" WEIGHT: 13,800 lbs

PATTERSON-UTI # PC2-128

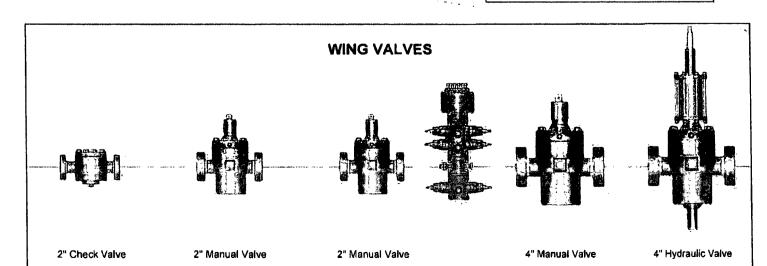
STYLE: New Cameron Type U

BORE 13 5/8" PRESSURE 10,000

RAMS: TOP 5" Pipe STM Blinds

HEIGHT: 66 5/8" WEIGHT: 24,000 lbs

DSA 4" 10M x 2" 10M



December 8, 2014



Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 284918

Hose	Specif	fications

Hose Type
Ck
LD.
3"
Working Pressure
10000 PSI

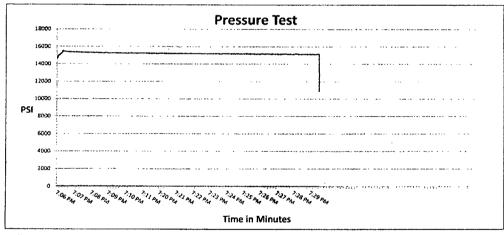
Q.D. Burst Pressure Standard Safety Multiplier Applie

Verification

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

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

Coupling Method



Test Pressure 15000 PSI

Time Held at Test Pressure 15 2/4 Minutes

Actual Burst Pressure

Peak Pressure 15732 PSI

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



Midwest Hose & Specialty, Inc.

General Infor	mation	Hose Specifi	cations
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
AWH Sales Representative	AMY WHITE	Certification	API 7K
Date Assembled	12/8/2014	Hose Grade	MUD
ocation Assembled	ОКС	Hose Working Pressure	10000
ales Order#	236404	Hose Lot # and Date Code	10490-01/13
Customer Purchase Order #	260471	Hose I.D. (Inches)	3"
Assembly Serial # (Pick Ticket #)	287918-2	Hose O.D. (Inches)	5.30"
lose Assembly Length	10'	Armor (yes/no)	YES
	Fitt	ings	
End A		End B	
tem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3:0X64WB
tem (Heat #)	91996	Stem (Heat #)	91996
errule (Part and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
errule (Heat#)	37DA5631	Ferrule (Heat #)	37DA5631
onnection (Part #)	4 1/16 10K	Connection (Part #)	4 1/16 10K
onnection (Heat#)		Connection (Heat #)	
Dies Used	5.37	Dies Used	5.37
	Hydrostatic Tes	t Requirements	
est Pressure (psi)	15,000	Hose assembly was tested	with ambient water
est Pressure Hold Time (minutes)	15 1/2	temperati	ure.



MASSETTERM OF REPLETOR OF THE SECOND SEC

Midwest Hose & Specialty, Inc.

Customer:	PATTERSON E	3&E	Customer P.O.# 260471	
iales Order#	236404		Date Assembled: 12/8/2014	
		Spe	cifications	
Hose Assem	ably Type:	Choke & Kill		
Assembly	Serial #	287918-2	Hose Lot # and Date Code	10490-01/13
Hose Working	Pressure (psi)	10000	Test Pressure (psi)	15000

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

Midwest Hose & Specialty, Inc.

1.5

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By Date
12/9/2014

Internal Hydrostatic Test Graph

December 9, 2014

Customer: Patterson

Hose Type Ck LD,

3"

Pick Ticket #: 284918

Midwest Hose & Specialty, Inc.

Hose Specifications

Q.D. 4.77

Burst Pressure

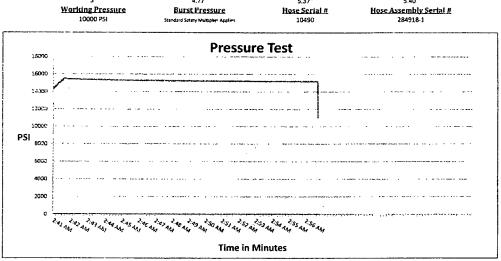
Verification

Type of Fitting 4-1/16 10K Die Size

Hose Serial # 10490

Coupling Method Swage Final O.D.

Hose Assembly Serial # 284918-1



Test Pressure 15000 PSI

Time Held at Test Pressure 15 2/4 Minutes

Actual Burst Pressure

Peak Pressure 15893 PSI

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

Approved By:



Midwest Hose & Specialty, Inc.

General infor	nation	Hose Specif	ications
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K
Date Assembled	12/8/2014	Hose Grade	MUD
Location Assembled	окс	Hose Working Pressure	10000
Sales Order #	236404	Hose Lot # and Date Code	10490-01/13
Customer Purchase Order#	260471	Hose I.D. (Inches)	3"
Assembly Serial # (Pick Ticket #)	287918-1	Hose O.D. (Inches)	5.30"
Hose Assembly Length	20'	Armor (yes/no)	YES
	Fit	tings	
End A		End I	3
Stem (Part and Revision #)	R3.0X64WB	Stem (Port and Revision #)	R3.0X64WB
Stem (Heat #)	A141420	Stem (Heat #)	A141420
Ferrule (Part and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
Ferrule (Heat #)	37DA5631	Ferrule (Heat #)	37DA5631
Connection (Part #)	4 1/16 10K	Connection (Part #)	4 1/16 10K
Connection (Heat#)	V3579	Connection (Heat #)	V3579
Dies Used	5.3	7 Dies Used	5.33
	Hydrostatic Te	st Requirements	
Test Pressure (psi)	15,000	Hose assembly was tested	l with ambient water
Test Pressure Hold Time (minutes)	15 1/2	temperat	ture.
Date Tested	Teste	d By	Approved By
12/9/2014	To Colo		Jan Alaus



Midwest Hose & Specialty, Inc.

les Order # 236404		Date Assembled: 12/8/2014	
Hose Assembly Type:	Choke & Kill	ecifications	
Assembly Serial #	287918-1	Hose Lot # and Date Code	10490-01/13
ose Working Pressure (psi)	10000	Test Pressure (psi)	15000

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By	Date	
Fran Alama	12/9/2014	

December 9, 2014



Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 284918

Hose Specifications

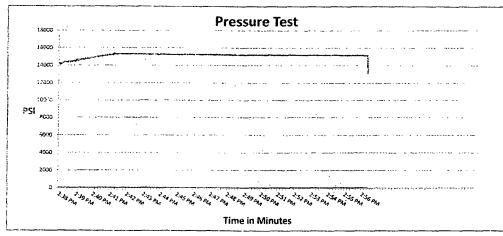
Mud 1.D. 3" Working Pressure 10000 PSI

Length 70' **Q.D.** 4.79" Burst Pressure

Verification Coupling Method

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

Hose Assembly Serial #



Test Pressure 15000 PSI

. (1

Time Held at Test Pressure 16 3/4 Minutes

Actual Burst Pressure

Peak Pressure 15410 PSI

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

Approved By:



Midwest Hose & Specialty, Inc.

General Infori	nation	Hose Specifi	cations	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill	
MWH Sales Representative	AMY WHITE	Certification	API 7K	
Date Assembled	12/8/2014	Hose Grade	MUD	
Location Assembled	окс	Hose Working Pressure	10000	
Sales Order #	236404	Hose Lot # and Date Code	10490-01/13	
Customer Purchase Order#	260471	Hose I.D. (Inches)	3"	
Assembly Serial # (Pick Ticket #)	287918-3	Hose O.D. (Inches)	5.23"	
Hose Assembly Length	70'	Armor (yes/no)	YES	
	Fitt	ngs		
End A		End B		
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision#)	R3.0X64WB	
Stem (Heal #)	A141420	Stem (Heat #)	A141420	
Ferrule (Part and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0	
Ferrule (Heat #)	37DA5631	Ferrule (Heat #)	37DA5631	
Connection (Port #)	4 1/16 10K	Connection (Part#)	4 1/16 10K	
Connection (Heat #)		Connection (Heat #)		
Dies Used	5.37	Dies Used	5.3	
	Hydrostatic Tes	t Requirements		
Tank Desagner ()	15,000	Hose assembly was tested	with ambient water	
Test Pressure (psi)		temperature.		



Midwest Hose & Specialty, Inc.

Customer: PAT	TERSON B	&E	Customer P.O.# 260471	
Sales Order # 236	404		Date Assembled: 12/8/2014	
		Spe	cifications	
	Tunar	Choke & Kill		
Hose Assembly 1	уре:			
Hose Assembly 1 Assembly Serie		287918-3	Hose Lot # and Date Code	10490-01/13

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By	Date	
Fran Alaus	12/9/2014	

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).

Technical Specifications

Connection Type:

Size(O.D.):

Weight (Wall):

Grade:

DWC/C-IS MS Casing

5-1/2 in

20.00 lb/ft (0.361 in)

VST P110 EC

standard

	Material
VST P110 EC	Grade
125,000	Minimum Yield Strength (psi)
135,000	Minimum Ultimate Strength (psi)
	Pipe Dimensions
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)
	Dia - Dada Barfarana - Dana - 4'
700 000	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 (%)
100.0	John Emclericy (70)
	Connection Performance Properties
729,000	Joint Strength (lbs)
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]
	Annaulmeted Field Food Teasure Velices
40 400	Appoximated Field End Torque Values
16,100	Minimum Final Torque (ft-lbs)
18,600	Maximum Final Torque (ft-lbs)

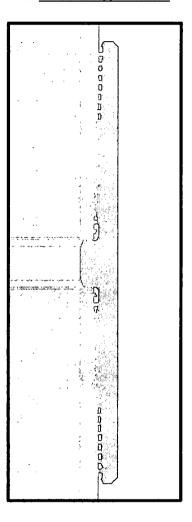


VAM USA

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 Yield Torque (ft-lbs)

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.

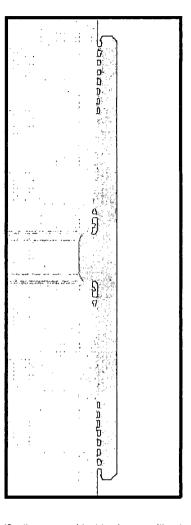
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21,100



DWC Connection Data Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 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.
- 4. 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.
- 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.
- 10. 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

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,=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

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 backup force than pore pressure.

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Collapse: DF_c=1.125

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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

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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

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- 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.
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- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at
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 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

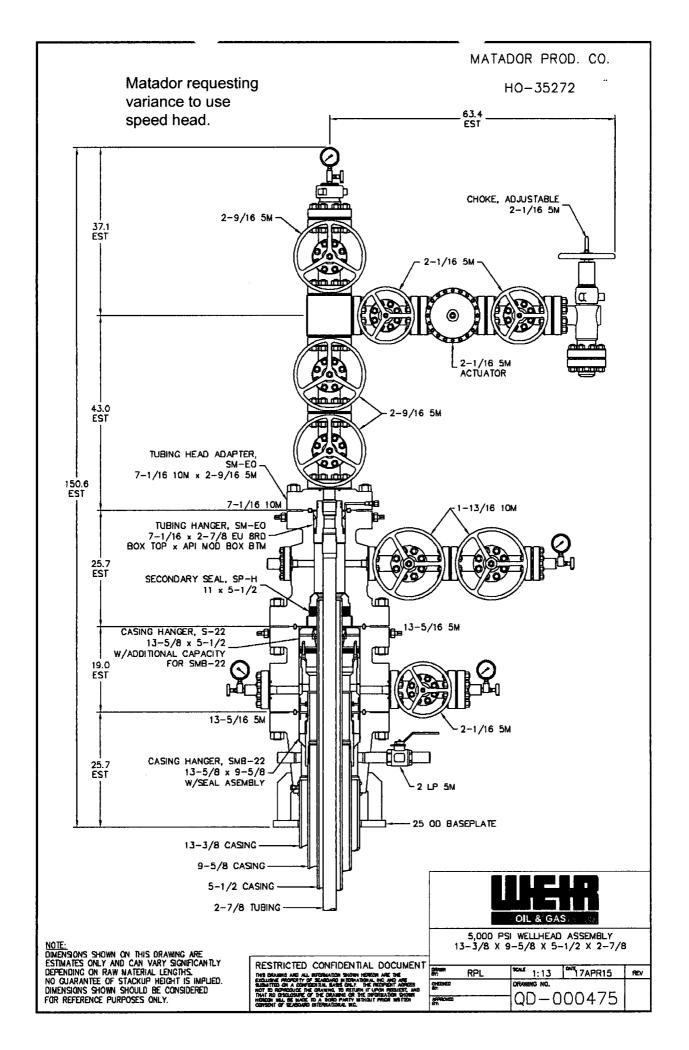
- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered.
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 more conservative backup force than pore pressure.

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• 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).



Matador Production Company Charles Ling Fed Com 132H SHL 360' FSL & 1905' FWL BHL 240' FNL & 1649' FWL Sec. 11, T. 24 S., R. 33 E., Lea County, NM

Drilling Program

1. ESTIMATED TOPS

Formation Name	MD	TVD	Bearing
Quaternary	000	000	water
Rustler anhydrite	1320	1320	N/A
Salado salt	1850	1850	N/A
Castile	3746	3741	N/A
Base salt	5225	5216	N/A
Bell Canyon	5268	5258	hydrocarbons
Cherry Canyon	6310	6300	hydrocarbons
Brushy Canyon	7504	7494	hydrocarbons
Bone Spring Limestone	9027	9017	hydrocarbons
1 st Bone Spring carbonate	9891	9881	hydrocarbons
1 st Bone Spring sandstone	10069	10059	hydrocarbons
2 nd Bone Spring carbonate	10421	10411	hydrocarbons
2nd Bone Spring sandstone	10794	10784	hydrocarbons
3 rd Bone Spring carbonate	11302	11291	hydrocarbon
(КОР	11444	11433	-)
3 rd Bone Spring sandstone (Goal)	11926	11860	hydrocarbons
TD	16778	12006	-

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 5960' southwest. Water bearing strata depth was reported in the 40' deep well. NMOSE estimated depth to groundwater is 175'.



Matador Production Company Charles Ling Fed Com 132H SHL 360' FSL & 1905' FWL BHL 240' FNL & 1649' FWL Sec. 11, T. 24 S., R. 33 E., Lea County, NM

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, and before drilling below the surface casing shoe, BOPE will be tested to 250 psi low and 10000 psi high. Annular will be tested to 250 psi low.

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.

Operator requests a variance to use a 5M Annular and test to 250 psi low and 5000 psi high.

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 10000 psi high. Annular will be tested to 250 psi low and 5000 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.



Matador Production Company Charles Ling Fed Com 132H SHL 360' FSL & 1905' FWL BHL 240' FNL & 1649' FWL Sec. 11, T. 24 S., R. 33 E., Lea County, NM

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	Collapse	Burst	Tension
17.5"	0' - 1350'	0′ - 1350'	13.375" surface	54.5	J-55	втс	1.125	1.125	1.8
12.25"	0′ - 5300'	0' - 5291'	9.625" inter. 1	40	J-55	втс	1.125	1.125	1.8
8.75"	0' - 16779'	0′ – 12006′	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'	TOC = 0'			SS	Centra	lizers per Onshore Order 2.III.B.1f
Intermediate	Lead	1290	1.83	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	SS	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	0'	3	35% Exces	S	2 on btm jt, 1 on 2nd jt, 1 every other jt top of tail cement (500' above TOC)	



Matador Production Company Charles Ling Fed Com 132H SHL 360' FSL & 1905' FWL BHL 240' FNL & 1649' FWL

Sec. 11, T. 24 S., R. 33 E., Lea County, NM

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 1/2"	FW spud mud	0-1350	8.4	28	NC
Inter.	12 ¼"	Brine Water	1350-5300	10.0	30-32	NC
Production	8 3/4"	FW/Cut Brine	5300-16779	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. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈5160 psi. Expected bottomhole temperature is ≈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 ≈3 months to drill and complete the well





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	Preventer	RWP		
Drill pipe	4"				
HWDP	4"				
Jars/Agitator	4.75-5"	Lower 3.5-5.5" VBR	10M		
Drill collars and MWD tools	4.75-5.25"	.75-5.25" Upper 3.5-5.5" VBR			
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

Matador PEDUCTON CONPART

Well Control Plan For 10M MASP Section of Wellbore

- 3. Space out drill string
- 4. Shut-in well with annular preventer (The 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 Running Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string
- 4. Shut-in well with annular preventer (The 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 with No Pipe In Hole

- 1. At any point when the BOP stack is clear of pipe or BHA, the well will be shut in with blind rams, the HCR valve will be open, and choke will be closed. If pressure increase is observed:
- 2. Sound alarm (alert crew)
- 3. Confirm shut-in
- 4. Notify tool pusher and company representative
- 5. Read and record the following:
 - SICP
 - Time of shut in
- 6. Regroup and identify forward plan

General Procedure While Pulling BHA through Stack

- 1. Prior to pulling last joint/stand of drill pipe through the stack, perform flow check. If flowing:
 - a. Sound alarm (alert crew)
 - b. Stab full opening safety valve and close
 - c. Space out drill string
 - d. Shut-in well with annular preventer (The HCR valve and choke will already be in the closed position)
 - e. Confirm shut-in

Matador

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.



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



APD ID: 10400032335

Well Type: OIL WELL

Submission Date: 07/23/2018

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM

Well Number: 132H

Well Work Type: Drill

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

CL_132H_Existing_Road_Map_MAP1_20180723101503.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

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

Will new roads be needed? YES

New Road Map:

CL_132H_New_Road_Map_MAP2_20180723101520.pdf

New road type: LOCAL, RESOURCE

Length: 4312.53

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 4

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 Name: CHARLES LING FED COM Well Number: 132H

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_132H_Well_Map_MAP3_20180723101536.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_132H_Production_Facilities_FIG1_20180723101547.pdf

Well Name: CHARLES LING FED COM

Well Number: 132H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: DUST CONTROL,

Water source type: GW WELL

INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE

CASING

Describe type:

Source longitude:

Source latitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: PRIVATE

Water source volume (barrels): 17000

Source volume (gal): 714000

Source volume (acre-feet): 2.1911826

Water source and transportation map:

CL 132H Water Gravel MAP4 20180723101603.pdf

Water source comments:

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Well Name: CHARLES LING FED COM Well Number: 132H

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 132H Construction Methods FIG1 20180723101804.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 containment 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

Cuttings area length (ft.)

Cuttings area width (ft.)

Well Name: CHARLES LING FED COM Well Number: 132H

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

CL 132H Well Site Layout FIG1 20180723101824.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 2

Recontouring attachment:

CL 132H Recontour_Plat_FIG2_20180723101838.pdf

CL_132H_Interim_Reclamation_v1_FIG1_20180723101848.pdf Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Well pad proposed disturbance

(acres): 4.5

Road proposed disturbance (acres):

1.28

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0

Other proposed disturbance (acres):

Total proposed disturbance: 9.92

Well pad interim reclamation (acres): 2 Well pad long term disturbance

(acres): 2.5 Road long term disturbance (acres):

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):

1.28 Powerline long term disturbance

Pipeline interim reclamation (acres): 0 (acres): 0

Pipeline long term disturbance

Other interim reclamation (acres): 0

(acres): 0

Total interim reclamation: 2

Other long term disturbance (acres):

4.14

Total long term disturbance: 7.92

Disturbance Comments:

Well Name: CHARLES LING FED COM Well Number: 132H

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:

Seed Management

Seed Table

Operator Name: MATADOF	R PRODUCTION COMPA	NY
Well Name: CHARLES LING	G FED COM	Well Number: 132H
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 S	Summary	Total pounds/Acre:
Seed Type	Pounds/Acre	
First Name:	/Responsible Offic	Last Name:
<u> </u>		AND THE PROPERTY OF THE PROPER
Phone:		Email:
Seedbed prep:		
Seed BMP:		
Seed method:		
Existing invasive species?	NO	
Existing invasive species tr	reatment description:	
Existing invasive species tr	reatment attachment:	
Weed treatment plan descri	iption: To BLM standards	S
Weed treatment plan attach	iment:	
Monitoring plan descriptior	n: To BLM standards	
Monitoring plan attachment	t:	
Success standards: To BLM	A satisfaction	
Pit closure description: No	nit	

Section 11 - Surface Ownership

Pit closure attachment:

Well Name: CHARLES LING FED COM Well Number: 132H

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

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: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

Well	Name: CHARLES LING FED COM	Well Number: 132H
BOR	Local Office:	
COE	Local Office:	
DOD	Local Office:	
NPS	Local Office:	
State	Local Office:	
Milita	ry Local Office:	
USFV	VS Local Office:	
Othe	r Local Office:	
USFS	Region:	
USFS	6 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:	
Distu	rbance type: OTHER	
Desc	ribe: Central Tank Battery	
Surfa	ice Owner: PRIVATE OWNERSHIP	
Othe	r surface owner description:	
BIA L	Local Office: Lo	
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: 132H
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: 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:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Well Name: CHARLES LING FED COM Well Number: 132H

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

Use APD as ROW?

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_132H_Slot2_SUPO_20180723102756.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. ROAD TO BE UPGRADED (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 (≈ 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. The closest existing well is an oil well and is located approximately 940' to the north. There are no fresh water wells within one mile.



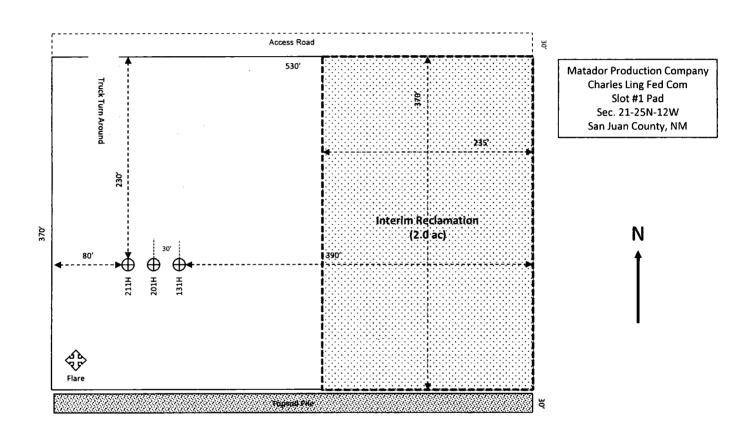


Figure 1:
Production Layout & Interim Reclamation

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

4. PROPOSED PRODUCTION FACILITIES (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. CONSTRUCTION NOTICES, MATERIALS, & METHODS (See Fig. 2 - Cut & Fill)

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.



PAGE 2

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

7. WASTE DISPOSAL

No reserve pit will be used. No blow pit will be used.

All trash will be placed in a portable trash cage. It will be hauled to the Lea County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to R360's state approved (NM-01-0006) disposal site at Halfway. Human waste will be disposed of in chemical toilets and hauled to the Jal wastewater treatment plant.

8. ANCILLARY FACILITIES (See Figure 3 – Wellsite & Rig Layout)

There will be no airstrip, camp, or staging area. Camper trailers will be on location for the company man, tool pusher, and mud logger.

9. WELL SITE LAYOUT

See Figures 1, 2, & 3 for depictions of the well pads, central tank batteries, cross sections, cut and fill diagrams, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION (See Fig. 1 – Production Layout/Interim Reclamation)

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.

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.

See following table for a breakdown of short-term and long-term disturbance by well pad slot and facility type.



Charles Ling Fed Com Short & Long Term Disturbance Figures

F	Disturbance	Pad	Roa	Road		ine	Flowl	ine	
Facility	Interval	ac	ft	ac	ft	ac	ft	ac	
	Short-term	4.5	-		-		-	3.5	Total Slot 1 Long-term
Slot 1	Interim Rec	2,	-	***	-	13.43	-	11,415	(incl. rd, gas, flow, & CTB)
	Long-term	2.5	284.29	0.20	*	-	243.94	0.17	6.83
	Short-term	4.5	-	•	-				Total Slot 2 Long-term
Slot 2	Interim Rec	2							(incl. rd, gas, flow, & CTB)
	Long-term	2.5	1,859.76	1.28	-		245.91	0.17	7.92
	Short-term	4.5	-		-		-	, ÷	Total Slot 3 Long-term
Slot 3	Interim Rec	2							(incl. rd, gas, flow, & CTB)
	Long-term	2.5	1,511.38	1.04	*		171.08	0.12	6.91
	Short-term	4.5	-	4	-		-		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
CTD 53	Short-term	2.75	-		_	190 17	-		Total E2 CTB Long-term
CTB E2	Long-term	2.75	-		728.83	0.50	_	\$	2.75
СТВ	Short-term	2.75	-			30 L 2 L	-	144	Total W2 CTB Long-term
W2	Long-term	2.75	-	•	1,777.13	1.22	-	-	2.75
Total Project Short-term		23.5	-	-	-		-	1	
Total Pro	ject Long-term	15.50	4,312.53	2.97	2,505.96	1.72	1,106.17	0.76	

11. SURFACE OWNER (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

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



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

13. REPRESENTATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this 16th day of May, 2018.

Mike Deutsch, Agent Permits West, Inc.

37 Verano Loop, Santa Fe, NM 87508

(505) 466-8120

Field representative will be:

Sam Pryor, Senior Staff Landman Matador Production Company 5400 LBJ Freeway, Suite 1500, Dallas TX 75240

Phone: (972) 371-5241







Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

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:

Section 3 - Unlined Pits

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? $\ensuremath{\mathsf{NO}}$

Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Unlined pit PWD on or off channel:	
Unlined pit PWD discharge volume (bbl/day):	
Unlined pit specifications:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	
Precipitated solids disposal permit:	
Unlined pit precipitated solids disposal schedule:	
Unlined pit precipitated solids disposal schedule attachment:	
Unlined pit reclamation description:	
Unlined pit reclamation attachment:	
Unlined pit Monitor description:	
Unlined pit Monitor attachment:	
Do you propose to put the produced water to beneficial use?	
Beneficial use user confirmation:	
Estimated depth of the shallowest aquifer (feet):	
Does the produced water have an annual average Total Dissol that of the existing water to be protected?	ved Solids (TDS) concentration equal to or less than
TDS lab results:	
Geologic and hydrologic evidence:	
State authorization:	
Unlined Produced Water Pit Estimated percolation:	
Unlined pit: do you have a reclamation bond for the pit?	
Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (hhl/day):	

Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	
Section 5 - Surface Discharge	
Would you like to utilize Surface Discharge PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Surface discharge PWD discharge volume (bbl/day):	
Surface Discharge NPDES Permit?	
Surface Discharge NPDES Permit attachment:	
Surface Discharge site facilities information:	
Surface discharge site facilities map:	
Section 6 - Other	
Would you like to utilize Other PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Other PWD discharge volume (bbl/day):	
Other PWD type description:	
Other PWD type attachment:	
Have other regulatory requirements been met?	
Other regulatory requirements attachment:	



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

Bond Info Data Report

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001079

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Well Name: CHARLES LING FED COM

Well Number: 132H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
PPP Leg #1	264 0	FSL	169 3	FWL	248	33E	11	Aliquot NESW	32.23211 9	- 103.5462 15	LEA	NEW MEXI CO		F	FEE	- 839 4	143 77	120 06
EXIT Leg #1	240	FSL	164 9	FWL	248	33E	11	Aliquot SESW	32.22551 89	- 103.5463 267	LEA	NEW MEXI CO		F	FEE	- 839 4	167 79	120 06
BHL Leg #1	240	FSL	164 9	FWL	24S	33E	11	Aliquot SESW	32.22551 89	- 103.5463 267	LEA	NEW MEXI CO	' ' - ' '	F	FEE	- 839 4	167 79	120 06