Form 3160-3 (June 2015)

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

ONTED SIM	E2 M	'	J			
DEPARTMENT OF THE BUREAU OF LAND MAI APPLICATION FOR PERMIT TO	INTERIOR	act 2 th	-0	5. Lease Serial No.		
BUREAU OF LAND MAI	NAGEMEN	LOC.	1EC	NMLC0063798		
DEPARTMENT OF THE BUREAU OF LAND MAIN APPLICATION FOR PERMIT TO 1a. Type of work:	DRILL OR	REENTER		6. If Indian, Allotee or	Tribe Name	
la. Type of work:	REENTER			7. If Unit or CA Agree	ement, Name and No.	
b. Type of Well:	Other			8. Lease Name and W	ell No	
e. Type of Completion: Hydraulic Fracturing	Single Zone	Multiple Zone		CHARLES LING EE		
				133H 3	22239)	
Name of Operator MATADOR PRODUCTION COMPANY 22893	7)			9. API Well No. 30-025-	9 457?	
Ba. Address 5400 LBJ Freeway, Suite 1500 Dallas TX 75240	3b. Phone N (972)371-5	10. (include area coa 200	le)	10. Field and Pool, or RED HILLS BONE S	1//27/	
4. Location of Well (Report location clearly and in accordance	e with any State	requirements.*)		11. Sec., T. R. M. or B	lk. and Survey or Area	
At surface NWNE / 597 FNL / 1877 FEL / LAT 32.23	77443 / LONG	-103.5406885		SEC 11 / T24S / R33	BE / NMP	
At proposed prod. zone SWSE / 240 FSL / 2306 FEL /			420628			
14. Distance in miles and direction from nearest town or post of 23 miles	office*			12. County or Parish LEA	13. State NM	
5. Distance from proposed* 360 feet	16. No of ac	eres in lease	17. Space	ing Unit dedicated to this	s well	
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	2480		160			
8. Distance from proposed location*	19. Propose	d Depth	20. BLM	/BIA Bond No. in file		
to nearest well, drilling, completed, 30 feet applied for, on this lease, fi	11974 feet	/ 16761 feet	FED: N	MB001079		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3617 feet	22. Approxi	mate date work will	start*	23. Estimated duration 90 days		
	24. Attac	hments		1		
The following, completed in accordance with the requirements as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest Sys SUPO must be filed with the appropriate Forest Service Offi	stem Lands, the	4. Bond to cover the Item 20 above). 5. Operator certification	ne operation	Hydraulic Fracturing rule ns unless covered by an e rmation and/or plans as m	xisting bond on file (see	
		BLM.				
25. Signature (Electronic Submission)		<i>(Printed/Typed)</i> Wood / Ph: (505)4	66-8120		Date 17/30/2018	
Fitle President					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Approved by (Signature)	· Name	(Printed/Typed)		I	Date_	
(Electronic Submission)	Christ	opher Walls / Ph:	(575)234-	2234 1	0/05/2018	
l'itle Petroleum Engineer	Office CARL	SBAD				
Application approval does not warrant or certify that the applicant to conduct operations thereon. Conditions of approval, if any, are attached.						
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 of the United States any false, fictitious or fraudulent statement					copartment of agency	
GCP Bec 10/24/18	411	ra condit	IONS	Kt john	:118	
Continued on page 2)	OAED AT	In A		±/1. /	ructions on page 2	

pproval Date: 10/05/2018

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.

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

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

BLM Point of Contact

Name: Sipra Dahal

Title: Legal Instruments Examiner

Phone: 5752345983 Email: sdahal@blm.gov

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



APD ID: 10400032585 Submission Date: 07/30/2018

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM

Well Type: OIL WELL

Well Number: 133H

Well Work Type: Drill

rienii chilingei

Show Final Text

Section 1 - General

APD ID: 10400032585 Tie to previous NOS?

Submission Date: 07/30/2018

BLM Office: CARLSBAD

User: Brian Wood

Title: President

Federal/Indian APD: FED

Is the first lease penetrated 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: 133H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: RED HILLS BONE Pool Name:

SPRING, NORTH

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

Well Name: CHARLES LING FED COM Well Number: 133H

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 3

Well Class: HORIZONTAL CHARLES LING FED COM

Number of Legs: 1

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_133H_C102_etal_072618_20180730135759.pdf

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	597	FNL	187 7	FEL	24S	33E	11	Aliquot NWNE	32.23774 43	- 103.5406 885	LEA	NEW MEXI CO	• • • • • •	l	NMLC0 063798	361 7	0	0
KOP Leg #1	53	FNL	211 2	FEL	248	33E		Aliquot NWNE	32.23924 2	- 103.5414 67	LEA		NEW MEXI CO	l	NMLC0 063798	- 778 4	114 23	114 01
PPP Leg #1	597	FNL	187 7	FEL	248	33E	11	Į.	32.23774 43	- 103.5406 885	LEA		NEW MEXI CO	l	NMLC0 063798	361 7	0	0

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

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

- Power Generation On lease
 - Operating a generator will only utilize a portion of the produced gas and the remainder of gas would still need to be flared.
 - 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
 - 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: 133H

Pressure Rating (PSI): 5M

Rating Depth: 12000

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

Requesting Variance? YES

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

Testing Procedure: Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required in Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. A third party company will test the BOPs. After setting surface casing, and before drilling below the surface casing shoe, BOPE will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high. After setting 9-5/8" casing, pressure tests will be made to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

Choke Diagram Attachment:

CL_133H_choke_20180730140736.pdf

BOP Diagram Attachment:

CL_133H_BOP_297_20180730140746.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	1340	0	1340	3617		1340	J-55		OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5220	0	5219	3617		5220	J-55	i "	OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
_	PRODUCTI ON	8.75	5.5	NEW	API	N	0	16671	0	11974	3617		16671	P- 110		OTHER - VAM DWC/C-IS HT Plus		1.12 5	DRY	1.8	DRY	1.8

Casing Attachments

Operator Name: MATADOR PRODUCTION COMPANY
Well Name: CHARLES LING FED COM Well Number: 133H
Casing Attachments
Casing ID: 1 String Type: SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
CL_133H_CasingDesignAssumptions_3string_BS_20180730140855.pdf
Casing ID: 2 String Type: INTERMEDIATE
Inspection Document:
Spec Document:
opeo Bodamona.
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
CL_133H_CasingDesignAssumptions_3string_BS_20180730141005.pdf
Casing ID: 3 String Type: PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:

Section 4 - Cement

Casing Design Assumptions and Worksheet(s):

 $CL_133H_CasingDesignAssumptions_3string_BS_20180730141120.pdf$

Well Name: CHARLES LING FED COM Well Number: 133H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1340	340	1.75	13.5	595	100	Class C	Bentonite + 2% CaCl2 + 3% NaCl + LCM
SURFACE	Tail		0	1340	800	1.38	14.8	1104	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		0	5220	1290	1.82	12.8	2348	100	Class C	Bentonite + 2% CaCl2 + 3% NaCl + LCM
INTERMEDIATE	Tail		0	5220	500	1.38	14.8	690	100	Class C	5% NaCl + LC
PRODUCTION	Lead		0	1667 1	935	2.35	11.5	1219 7	35	Class H	+ Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Tail		0	1667 1	500	1.38	14.8	690	35	Class H	Fluid Loss + Dispersant + Retarder + LCM

Section 5 - Circulating Medium

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

O Top Depth	Bottom Depth	ed. DTW OTHER : Fresh water spud	Min Weight (lbs/gal)	8. Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (ibs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics	
5220	1667 1	OTHER : Fresh water & cut brine	9	9							 	

Well Name: CHARLES LING FED COM Well Number: 133H

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

Section 6 - Test, Logging, Coring

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

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

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

CBL

Coring operation description for the well:

No core or drill stem test is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5247

Anticipated Surface Pressure: 2612.71

Anticipated Bottom Hole Temperature(F): 158

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

CL_133H_H2S_Plan_Slot3_20180730141704.pdf

Well Name: CHARLES LING FED COM Well Number: 133H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CL_133H_Horizontal_Drill_Plan_20180730141714.pdf

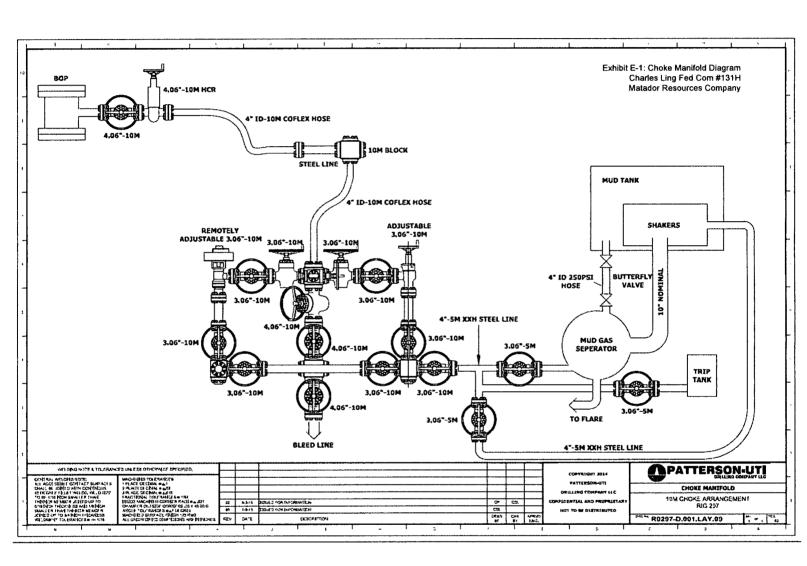
Other proposed operations facets description:

Other proposed operations facets attachment:

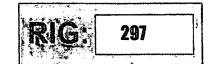
 $CL_133H_Speedhead_Specs_3string_20180730142522.pdf$

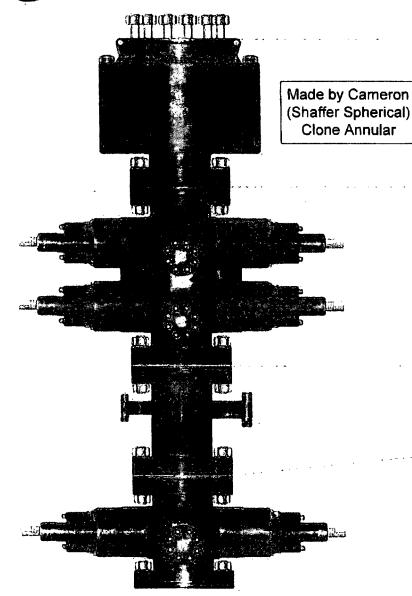
CL_133H_Drill_Plan_Revised_20180816152247.pdf

Other Variance attachment:



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

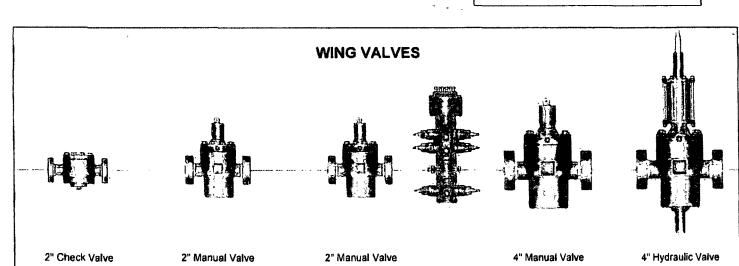
RAMS: TOP 5" Pipe BTM Blinds

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

Length 40" Outlets 4" 10M

DSA 4" 10M x 2" 10M

PATTERSON-UTI # ____ PC2-228 STYLE: ___ New Cameron Type U BORE __ 13 5/8" __ PRESSURE __ 10,000 RAMS: ____ 5" Pipe HEIGHT: __ 41 5/8" WEIGHT: __ 13,000 lbs



December 8, 2014



Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 284918

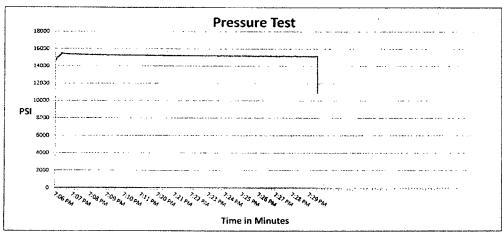
Hose Specifications

Hose Type Length Ck LD. 3" Q.D. 4.79" Working Pressure Burst Pressure 10000 PSI

<u>Verification</u>

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

Swage Final Q.D. Hose Assembly Secial #



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.

nation	Hose Specific	cations
PATTERSON B&E	Hose Assembly Type	Choke & Kill
AMY WHITE	Certification	API 7K
12/8/2014	Hose Grade	MUD
окс	Hose Working Pressure	10000
236404	Hose Lot # and Date Code	10490-01/13
260471	Hose I.D. (Inches)	3"
287918-2	Hose O.D. (Inches)	5.30"
10'	Armor (yes/no)	YES
Fitt	ings	
	End B	
R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
91996	Stem (Heat #)	91996
RF3.0	Ferrule (Part and Revision #)	RF3.0
37DA5631	Ferrule (Heat #)	37DA5631
4 1/16 10K	Connection (Part #)	4 1/16 10K
	Connection (Fleat #)	
5.3	7 Dies Used	5.37
Hydrostatic Te	st Requirements	
15,000	Hose assembly was tested	with ambient water
15 1/2	temperatu	re.
	PATTERSON B&E AMY WHITE 12/8/2014 OKC 236404 260471 287918-2 10' Fitt R3.0X64WB 91996 RF3.0 37DA5631 4 1/16 10K 5.3 Hydrostatic Te 15,000	PATTERSON B&E Hose Assembly Type AMY WHITE Certification 12/8/2014 Hose Grade OKC Hose Working Pressure 236404 Hose Lot # and Date Code 260471 Hose I.D. (Inches) 287918-2 Hose O.D. (Inches) 10' Armor (yes/na) Fittings End B R3.0X64WB Stem (Part and Revision #) 91996 Stem (Part and Revision #) 91996 Stem (Heat #) RF3.0 Ferrule (Part and Revision #) 37DA5631 Ferrule (Heat #) 4.1/16.10K Connection (Part #) Connection (Part #) 5.37 Dies Used Hydrostatic Test Requirements 15,000 Hose assembly was tested



Midwest Hose & Specialty, Inc.

	Certificat	e of Conformity	
Customer: PATTERSON	I B&E	Customer P.O.# 260471	
Sales Order# 236404		Date Assembled: 12/8/2014	
	Spe	cifications	
Hose Assembly Type:	Choke & Kill		
Assembly Serial #	287918-2	Hose Lot # and Date Code	10490-01/13
Hose Working Pressure (psi,	10000	Test Pressure (psi)	15000
·			

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

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By	Date
Fran Allama	12/9/2014

December 9, 2014



Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 284918

Hose Specifications

Q.D.

3"
Working Pressure
10000 PSi

Hose Type Ck LD.

Burst Pressure

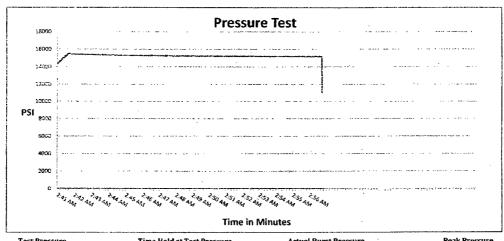
Verification

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



Midwest Hose & Specialty, Inc.

General Infor	mation	Hose Specifi	cations
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K
Date Assembled	12/8/2014	Hose Grade	MUD
Location Assembled	окс	Hose Working Pressure	10000
Sales Order #	236404	Hose Lot # and Date Code	10490-01/13
Customer Purchase Order #	260471	Hose I.D. (Inches)	3"
Assembly Serial # (Pick Ticket #)	287918-1	Hose O.D. (Inches)	5.30"
Hose Assembly Length	20'	Armor (yes/no)	YES
	Fit	tings	
End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64W8
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	5.3
	Hydrostatic Te	st Requirements	
Test Pressure (psi)	15,000	Hose assembly was tested	vith ambient water
Test Pressure Hold Time (minutes)		=	



Midwest Hose & Specialty, Inc.

Customer:	PATTERSON E	3&E	Customer P.O.# 260471	
Sales Order#	236404		Date Assembled: 12/8/2014	
		Spec	ifications	
Hose Assemb	oly Type:	Choke & Kill		
Hose Assemb Assembly S		Choke & Kill 287918-1	Hose Lot # and Date Code	10490-01/13

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

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By	Date
Fran Alaus	12/9/2014

December 9, 2014



Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 284918

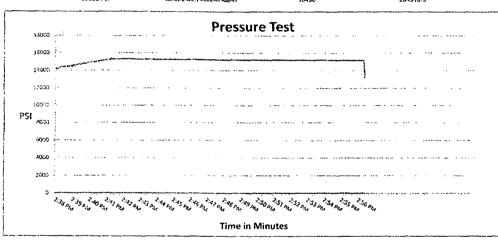
Verification

Hose Specifications

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

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

284918-3



Test Pressure 15000 PSI Time Held at Test Pressure 16 3/4 Minutes Actual Burst Pressure

Peak Pressure

Comments: Hose assembly pressure tested with water at ambient temperature

Tested By: The Hill

Approved By: Ryan Agams



Midwest Hose & Specialty, Inc.

ion ITERSON B&E	Hose Specific			
TERCON DR.E		auons		
I I EKSON DAE	Hose Assembly Type	Choke & Kill		
IY WHITE	Certification	API 7K		
/8/2014	Hose Grade	MUD		
С	Hose Working Pressure	10000		
5404	Hose Lot # and Date Code	10490-01/13		
1471	Hose I.D. (Inches)	3"		
918-3	Hose O.D. (Inches)	5.23"		
	Armor (yes/na)	YES		
Fitti	ngs			
End A		End B		
0X64WB	Stem (Part and Revision #)	R3.0X64WB		
11420	Stem (Heat #)	A141420		
3.0	Ferrule (Part and Revision #)	RF3.0		
A5631	Ferrule (Heat #)	37DA5631		
/16 10K	Connection (Part #)	4 1/16 10K		
	Connection (Heat #)			
5.37	Dies Used	5.37		
ydrostatic Tes	t Requirements.			
000	Hose assembly was tested with ambient water			
3/4	temperature.			
	000 000 000 000 000 000 000 000 000 00	Hose Working Pressure Hose Lot # and Date Code Hose I.D. (Inches) Place Hose O.D. (Inches) Armor (yes/na) Fittings End B DX64WB Stem (Part and Revision #) A5631 Ferrule (Part and Revision #) Connection (Part #) Connection (Part #) Connection (Part #) Fittings Ferrule (Heat #) Connection (Part #) Hose assembly was tested to the part was tested to t		



Midwest Hose & Specialty, Inc.

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

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

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By	Date
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).

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_h=1.125

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

Tensile: DF_t=1.8

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

Intermediate #1 Casing

Collapse: DF_C=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Production Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DF_C=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Intermediate #1 Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Production Casing

Collapse: DF_C=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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



Hydrogen Sulfide Drilling

Operations Plan

Matador Resources

1 H2S safety instructions to the following:

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

2 H2S Detection and Alarm Systems:

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

3 Windsocks and / Wind Streamers:

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

4 Condition Flags and Signs:

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

5 Well Control Equipment:

See Exhibit E-1

6 Communication:

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



7 <u>Drilling Stem Testing:</u>

• No DST cores are planned at this time

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

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

11 Emergency Contacts

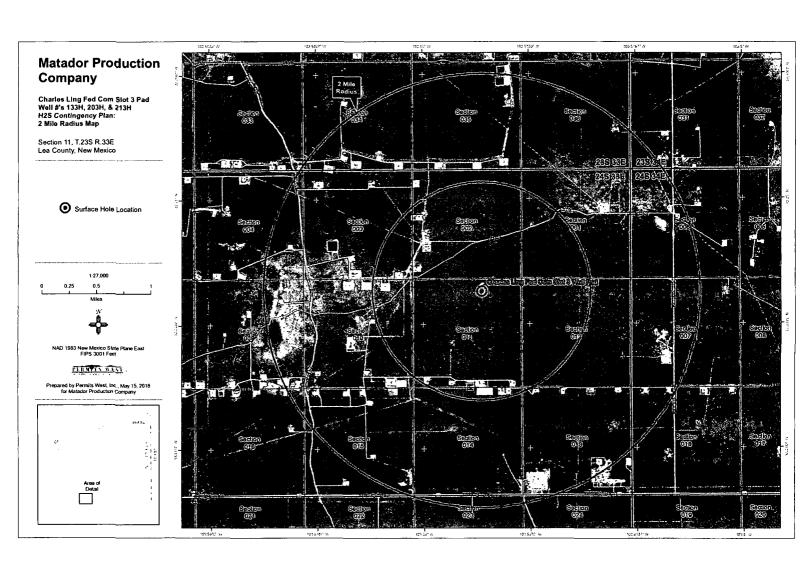
• See exhibit E-6

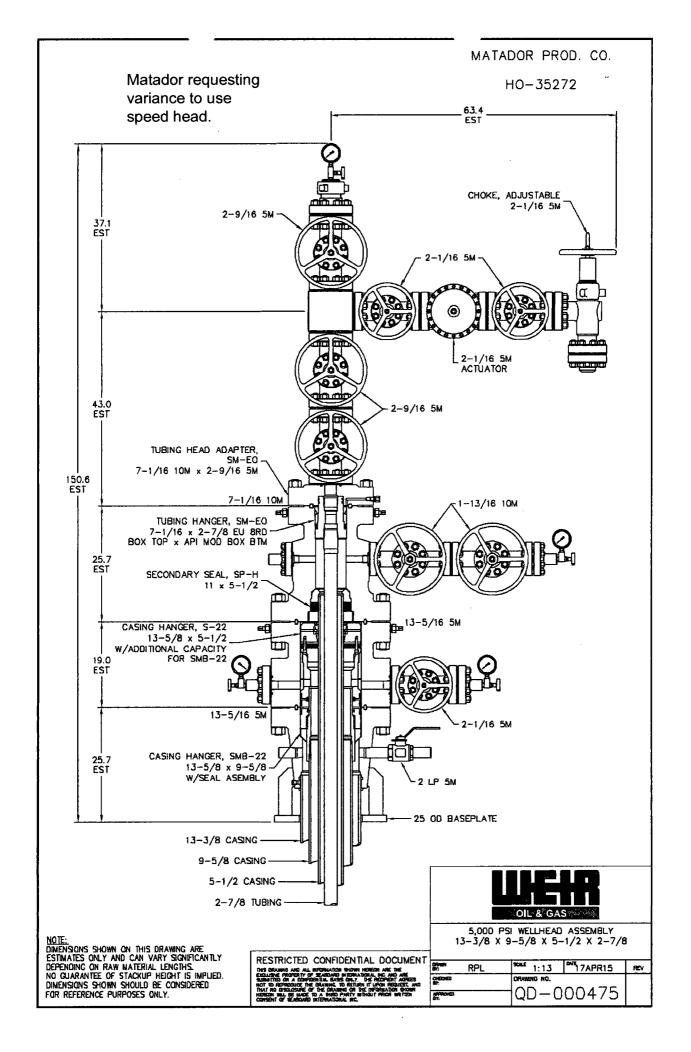
Exhibit E-6: H2S Contingency Plan Emergency Contacts

Charles Ling Fed Com Slot 3 Wells 133H, 203H, & 213H Matador Resources Company Sec. 11, 24S, 33E

Lea County, NM

Company Office			
Matador Resources Company	(972)-371-5200		
Key Personnel			
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Blake Hermes	Drilling Engineer	972-371-5485	713-876-8558
	Construction Superintendent		
	Construction Superintendent		
<u>Artesia</u>			
Ambulance		911	
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office		575-746-9888	
Fire Department		575-746-2701	
Local Emergency Planning Committee	e	575-746-2122	
New Mexico Oil Conservation Division	n	575-748-1283	
Carlsbad			
Ambulance		911	
State Police		575-885-3137	
City Police		575-885-2111	
Sheriff's Office		575-887-7551	
Fire Department		575-887-3798	•
Local Emergency Planning Committee	e	575-887-6544	
New Mexico Oil Conservation Division		575-887-6544	
Santa Fe			
New Mexico Emergency Response Comission (Santa Fe)		505-476-9600	
New Mexico Emergency Response Comission (Santa Fe) 24 hrs		505-827-9126	
New Mexico State Emergency Operations Center		505-476-9635	
<u>National</u>			
National Emegency Response Center	(Washington, D.C.)	800-424-8802	
<u>Medical</u>			
Flight for Life- 4000 24th St.; Lubbock	ς, TX	806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd S.E., D3; Albuquerque, NM		505-842-4433	
SB Air Med Service- 2505 Clark Carr Loop S.E.; Albuquerque, NM		505-842-4949	L
<u>Other</u>			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Haliburton		575-746-2757	
B.J. Services		575-746-3569	





Technical Specifications

Connection Type:

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

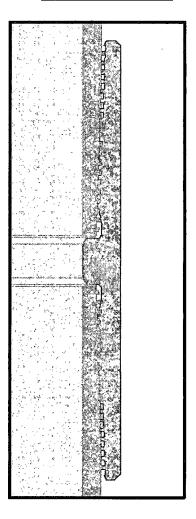
standard

	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)		
	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 (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]		
	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)		



VAM USA 4424 W. Sam Houston Pkwy. Suite 150 Houston, TX 77041 Phone: 713-479-3200 Fax: 713-479-3234

E-mail: VAMUSAsales@vam-usa.com



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

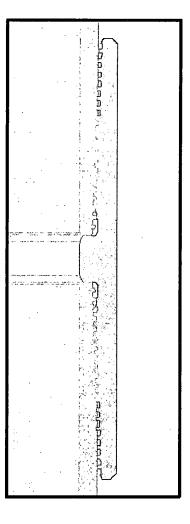
Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained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

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.



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.
- 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.
- 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.

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

1/11/2017 8:38:10 AM

Matador Production Company Charles Ling Fed Com 133H SHL 597' FSL & 1877' FWL BHL 240' FNL & 2306' 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	1329	1329	N/A
Salado salt	1858	1858	N/A
Castile	3745	3738	N/A
Base salt	5228	5217	N/A
Bell Canyon	5274	5263	hydrocarbons
Cherry Canyon	6340	6325	hydrocarbons
Brushy Canyon	7505	7488	hydrocarbons
Bone Spring Limestone	9043	9022	hydrocarbons
1 st Bone Spring carbonate	9874	9852	hydrocarbons
1 st Bone Spring sandstone	10051	10029	hydrocarbons
2 nd Bone Spring carbonate	10459	10438	hydrocarbons
2nd Bone Spring sandstone	10777	10756	hydrocarbons
3 rd Bone Spring carbonate	11293	11272	hydrocarbon
(КОР	11423	11401	-)
3 rd Bone Spring sandstone (Goal)	11925	11842	hydrocarbons
TD	16761	11974	•

2. NOTABLE ZONES

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

3. PRESSURE CONTROL

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.



Matador Production Company Charles Ling Fed Com 133H SHL 597' FSL & 1877' FWL BHL 240' FNL & 2306' FWL

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

Testing Procedure

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

A third party company will test the BOPs.

After setting surface casing, and before drilling below the surface casing shoe, BOPE will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high. After setting 9-5/8" casing, pressure tests will be made to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

Variance Request

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

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

4. CASING & CEMENT

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

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



Matador Production Company Charles Ling Fed Com 133H SHL 597' FSL & 1877' FWL BHL 240' FNL & 2306' FWL

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

Name	Туре	Sacks	Yield	Cu. Ft.	Weight	Blend	
Surface	Lead	340	1.75	595	13.5	Class C + Bentonite + 2% CaCl ₂ + 3% NaCl + LCM	
	Tail	800	1.38	1104	14.8	Class C + 5% NaCl + LCM	
TOC = 0'		1	00% Exces	ss	Centra	lizers per Onshore Order 2.III.B.1f	
Intermediate	Lead	1290	1.82	2348	12.8	Class C + Bentonite + 1% CaCL2 + 8% NaCl + LCM	
	Tail	500	1.38	690	14.8	Class C + 5% NaCl + LCM	
TOC = 0'		1	00% Exces	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 = 4200'		3	35% Exces	s	2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (500' above TOC)		

5. MUD PROGRAM

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

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

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

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



Matador Production Company Charles Ling Fed Com 133H SHL 597' FSL & 1877' FWL BHL 240' FNL & 2306' FWL Sec. 11, T. 24 S., R. 33 E., Lea County, NM

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 ≈5247 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





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



APD ID: 10400032585 Submission Date: 07/30/2018

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CHARLES LING FED COM

Well Type: OIL WELL

Well Number: 133H

Well Work Type: Drill



Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

CL_133H_Existing_Road_Map_MAP1_20180730141811.pdf

Existing Road Purpose: ACCESS

Row(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_133H_New_Road_Map_MAP2_20180730141828.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: 133H

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Grader

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Crowned and ditched

Road Drainage Control Structures (DCS) description: None

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

CL_133H_Well_Map_MAP3_20180730141844.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

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

Production Facilities map:

CL_133H_Production_Facilities_FIG1_20180730141855.pdf

Well Name: CHARLES LING FED COM

Well Number: 133H

Section 5 - Location and Types of Water 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 (acre-feet): 2.1911826

Source volume (gal): 714000

Water source and transportation map:

CL_133H_Water_Gravel_MAP4_20180730141907.pdf

Water source comments: Water will be trucked via existing roads from the existing Madera water station on private land in

NWNE 21 -24s-34e. New water well? NO

New Water Well 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:

Well Name: CHARLES LING FED COM Well Number: 133H

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

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

CL_133H_Construction_Methods_FIG1_20180730141950.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill cuttings, mud, salts, and other chemicals

Amount of waste: 2000

barrels

Waste disposal frequency: Daily

Safe containment description: Steel tanks

Safe 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

Well Name: CHARLES LING FED COM

Well Number: 133H

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

CL_133H_Well_Site_Layout_FIG1_20180730142036.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: CHARLES LING FED COM

Multiple Well Pad Number: SLOT 3

Recontouring attachment:

CL_133H_Recontour_Plat_FIG2_20180730142051.pdf

CL 133H Interim Reclamation_v1_FIG1_20180730142057.pdf Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Well pad proposed disturbance

(acres): 4.5

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0

Other proposed disturbance (acres):

3.37

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

Road interim reclamation (acres): 0

(acres): 2.5

Road long term disturbance (acres):

Powerline interim reclamation (acres):

1.04 Powerline long term disturbance

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

Other interim reclamation (acres): 0

Pipeline long term disturbance

(acres): 0

Total interim reclamation: 2

Other long term disturbance (acres):

3.37

Well Name: CHARLES LING FED COM Well Number: 133H

Total proposed disturbance: 8.91

Total long term disturbance: 6.91

Disturbance Comments:

Reconstruction method: Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking each pad by 2 acres by removing caliche and reclaiming a 230' x 370' wide block on the east side of each pad. This will leave roughly 2.26 acres for operating 3 wells and a tractor-trailer turn around on each pad. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the land owner's requirements.

Topsoil redistribution: Enough stockpiled topsoil will be retained on the south edge of the pad for Slots 1, 2, & 3 and on the east side of the pad for Slot 4. Top soil for the tank battery sites will be stockpiled on the south edge of each site. This soil will be used to cover the remainder of the pads and tank battery sites when the wells are plugged. Once the last well is plugged, then the rest of the pad and associated roads will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.

Soil treatment: None

Existing Vegetation at the well pad:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Operator Name: MATADOR PRODUCTION COMPANY Well Name: CHARLES LING FED COM Well Number: 133H **Seed Management Seed Table** Seed type: Seed source: Seed name: Source address: Source name: Source phone: Seed cultivar: Seed use location: PLS pounds per acre: Proposed seeding season: Total pounds/Acre: **Seed Summary Seed Type** Pounds/Acre Seed reclamation attachment: **Operator Contact/Responsible Official Contact Info** First Name: **Last Name:** Phone: Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: To BLM standards

Weed treatment plan attachment:

Monitoring plan description: To BLM standards

Monitoring plan attachment:

Success standards: To BLM satisfaction

Pit closure description: No pit

Pit closure attachment:

Well Name: CHARLES LING FED COM

Well Number: 133H

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Mark and Annette McCloy Revocable

Trust 2014

Phone: (432)940-4459

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:

Well Name: CHARLES LING FED COM Well Number: 133H

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Mark and Annette McCloy Revocable

Trust 2014

Phone: (432)940-4459

Fee Owner Address: C/O Mark McCloy PO Box 795 Tatum

NM 88267 Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: In process

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: OTHER

Describe: Central Tank Battery

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

Well	Name: CHARLES LING FED COM	Well Number: 133H
BOR	Local Office:	
COE	Local Office:	
DOD	Local Office:	
NPS L	Local Office:	
State	Local Office:	
Milita	ry Local Office:	
USFW	/S 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:	
	rbance type: PIPELINE	
Descr		
	ce Owner: PRIVATE OWNERSHIP	
	surface owner description:	
	ocal Office:	
	Local Office:	
	Local Office:	
	Local Office:	
	.ocal Office:	
State	Local Office:	

Well Name: CHARLES LING FED COM

Well Number: 133H

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner Address: C/O Mark McCloy PO Box 795 Tatum

Fee Owner: Mark and Annette McCloy Revocable

Trust 2014

NM 88267

Phone: (432)940-4459

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_Slot3_SUPO_072618_20180730142152.pdf



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

	22.00		
•	PW	'D Data R	<i>leport</i>
		1	0/08/2018
		and the same of th	an <u>an</u> in the same cases

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

Rig Diagram

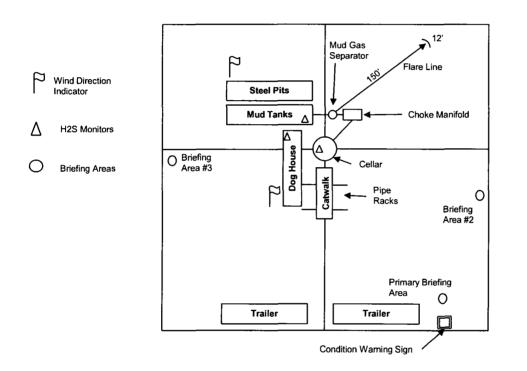


Exhibit E-3: Rig Diagram Charles Ling Fed Com Slots 1, 2, 3, & 4 Well Pads Matador Resources Company 11-24S-33E Lea County, NM





Section 3 - Unlined Pits

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Unlined pit PWD on or off channel:	
Unlined pit PWD discharge volume (bbl/day):	
Unlined pit specifications:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	
Precipitated solids disposal permit:	
Unlined pit precipitated solids disposal schedule:	
Unlined pit precipitated solids disposal schedule attachment:	
Unlined pit reclamation description:	
Unlined pit reclamation attachment:	
Unlined pit Monitor description:	
Unlined pit Monitor attachment:	
Do you propose to put the produced water to beneficial use?	
Beneficial use user confirmation:	
Estimated depth of the shallowest aquifer (feet):	
Does the produced water have an annual average Total 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 (bbl/day):	

Injection well type:						
Injection well number:	Injection well name:					
Assigned injection well API number?	Injection well API number:					
Injection well new surface disturbance (acres):						
Minerals protection information:						
Mineral protection attachment:						
Underground Injection Control (UIC) Permit?						
UIC Permit attachment:						
Section 5 - Surface Discharge						
Would you like to utilize Surface Discharge PWD options? N	0					
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: 133H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	ΟΛΤ
PPP Leg #1	264 0	FSL	229 1	FEL	24S	33E	11	Aliquot NWSE	32.23212 5	- 103.5420 47	LEA	1	NEW MEXI CO	F	FEE	- 835 7	143 56	119 74
EXIT Leg #1	240	FSL	230 6	FEL	248	33E	11	Aliquot SWSE	32.22551 72	- 103.5420 628	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 835 7	167 61	119 74
BHL Leg /	240	FSL	230 6	FEL	24S	33E	11	Aliquot SWSE	32.22551 72	- 103.5420 628	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 835 7	167 61	119 74