

**HOBBS OCD**  
**FEB 28 2018**

F/S

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

**RECEIVED**

5a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM135247
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator MATADOR PRODUCTION COMPANY 228937		7. If Unit or CA Agreement, Name and No.
3a. Address 5400 LBJ Freeway, Suite 1500 Dallas TX 75242		8. Lease Name and Well No. 320881 NINA CORTELL FED COM 121H
3b. Phone No. (include area code) (972)371-5200		9. API Well No. 30-025-44548
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SWSW / 150 FSL / 585 FWL / LAT 32.4138789 / LONG -103.6692442 At proposed prod. zone LOT 4 / 240 FNL / 990 FWL / LAT 32.4273146 / LONG -103.6679712		10. Field and Pool, or Exploratory BILBREY BASIN / BONESPRING 5685
14. Distance in miles and direction from nearest town or post office* 27 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 3 / T22S / R32E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 150 feet	16. No. of acres in lease 439.68	12. County or Parish LEA
17. Spacing Unit dedicated to this well 160	18. Distance from proposed location* to nearest well, drilling, completed, 1923 feet applied for, on this lease, ft.	13. State NM
19. Proposed Depth 10996 feet / 15653 feet	20. BLM/BIA Bond No. on file FED: NMB001079	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3807 feet	22. Approximate date work will start* 12/01/2017	23. Estimated duration 90 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- |                                                                                                                                                |                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor.                                                                                               | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.                                                                                                                            | 5. Operator certification                                                                       |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

25. Signature (Electronic Submission)	Name (Printed/Typed) Brian Wood / Ph: (505)466-8120	Date 11/21/2017
Title President		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 02/26/2018
Title Supervisor Multiple Resources Office CARLSBAD		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

SCP 2/28/18

**APPROVED WITH CONDITIONS**

Approval Date: 02/26/2018

KE  
02/01/18

\*(Instructions on page 2)

Miss: j  
Pfd

## **Additional Operator Remarks**

### **Location of Well**

1. SHL: SWSW / 150 FSL / 585 FWL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4138789 / LONG: -103.6692442 ( TVD: 0 feet, MD: 0 feet )  
PPP: SWNW / 2640 FSL / 990 FWL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.420737 / LONG: -103.66795 ( TVD: 10996 feet, MD: 13261 feet )  
PPP: SWSW / 150 FSL / 585 FWL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4138789 / LONG: -103.6692442 ( TVD: 0 feet, MD: 0 feet )  
BHL: LOT 4 / 240 FNL / 990 FWL / TWSP: 22S / RANGE: 32E / SECTION: 4 / LAT: 32.4273146 / LONG: -103.6679712 ( TVD: 10996 feet, MD: 15653 feet )

## **BLM Point of Contact**

Name: Tenille Ortiz

Title: Legal Instruments Examiner

Phone: 5752342224

Email: tortiz@blm.gov

## Operator Certification

*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.*

**NAME:** Brian Wood**Signed on:** 11/21/2017**Title:** President**Street Address:** 37 Verano Loop**City:** Santa Fe**State:** NM**Zip:** 87508**Phone:** (505)466-8120**Email address:** afmss@permitswest.com

## Field Representative

**Representative Name:** Sam Pryor**Street Address:** 5400 LBJ Freeway, Suite 1500**City:** Dallas**State:** TX**Zip:** 75240**Phone:** (972)371-5241**Email address:**

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED COM

Well Number: 121H

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: NINA Number: SLOT 1  
CORTELL

Well Class: HORIZONTAL

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: 27 Miles

Distance to nearest well: 1923 FT

Distance to lease line: 150 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: NC\_121H\_plat\_20171120131447.pdf

Well work start Date: 12/01/2017

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	150	FSL	585	FWL	22S	32E	3	Aliquot SWS W	32.4138789	-103.6692442	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	3807	0	0
KOP Leg #1	150	FSL	585	FWL	22S	32E	3	Aliquot SWS W	32.4138789	-103.6692442	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	-6616	10440	10423
PPP Leg #1	150	FSL	585	FWL	22S	32E	3	Aliquot SWS W	32.4138789	-103.6692442	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	3807	0	0

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED COM

Well Number: 121H

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.

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. Surface casing will be pressure tested to 250 psi low and 2000 psi high. Intermediate casing pressure tests will be made to 250 psi low and 3000 psi high. Annular preventer will be tested to 250 psi low and 1000 psi high on the surface casing and tested to 250 psi low and 2500 psi high on the intermediate casing. In the case of running a speed head with landing mandrel for 9.625" casing, initial surface casing test pressures will be 250 psi low and 3000 psi high and the annular will be tested to 250 psi low and 2500 psi high. Wellhead seals will be tested to 5000 psi once the 9.625" casing has been landed and cemented. Matador is requesting a variance to use a speed head. Speed head diameter range is 13.375" x 9.625" x 5.5" x 2.875".

Choke Diagram Attachment:

NC\_121H\_choke\_20171120210542.pdf

BOP Diagram Attachment:

NC\_121H\_BOP\_20171120210650.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	1200	0	1200			1200	J-55	54.5	OTHER - BTC	1.125	1.125	DRY	1.8	DRY	1.8
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5000	0	4986			5000	J-55	40	OTHER - BTC	1.125	1.125	DRY	1.8	DRY	1.8
3	PRODUCTION	8.75	5.5	NEW	API	N	0	15653	0	10996			15653	P-110	20	OTHER - BTC/XP	1.125	1.125	DRY	1.8	DRY	1.8

Casing Attachments

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED COM

Well Number: 121H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1200	250	1.82	12.8	455	100	CLASS C	BENTONITE + 2% CaCl2 + 3% NaCl + LCM
SURFACE	Tail				889	1.38	14.8	1226	100	CLASS C	5% NaCl + LCM
INTERMEDIATE	Lead		0	5000	1044	2.13	12.6	2223	100	Class C	Bentonite + 1% CaCl2 + 8% NaCl + LCM
INTERMEDIATE	Tail		0	5000	554	1.38	14.8	764	100	Class C	5% NaCl + LCM
PRODUCTION	Lead		0	1565 3	888	2.35	11.5	2086	35	TXI	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Tail		0	1565 3	1533	1.39	13.2	2130	35	TXI	Fluid Loss + Dispersant + Retarder + LCM

### Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

**Describe what will be on location to control well or mitigate other conditions:** No core or drill stem test is planned. A 2-person mud logging program will be used from 5000' 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.  
**Describe the mud monitoring system utilized:** 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.

### 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)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1200	SPUD MUD	8.3	8.3							
1200	5000	OTHER : BRINE WATER	10	10							

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 121H

## **Section 8 - Other Information**

**Proposed horizontal/directional/multi-lateral plan submission:**

NC\_121H\_horiz\_drill\_plan\_20171120214708.pdf

**Other proposed operations facets description:**

GENERAL DRILL PLAN ATTACHED

SPEEDHEAD VARIANCE FROM BOP/CHOKE SECTION ATTACHED HERE

**Other proposed operations facets attachment:**

NC\_121H\_speedhead\_variance\_20171120214746.pdf

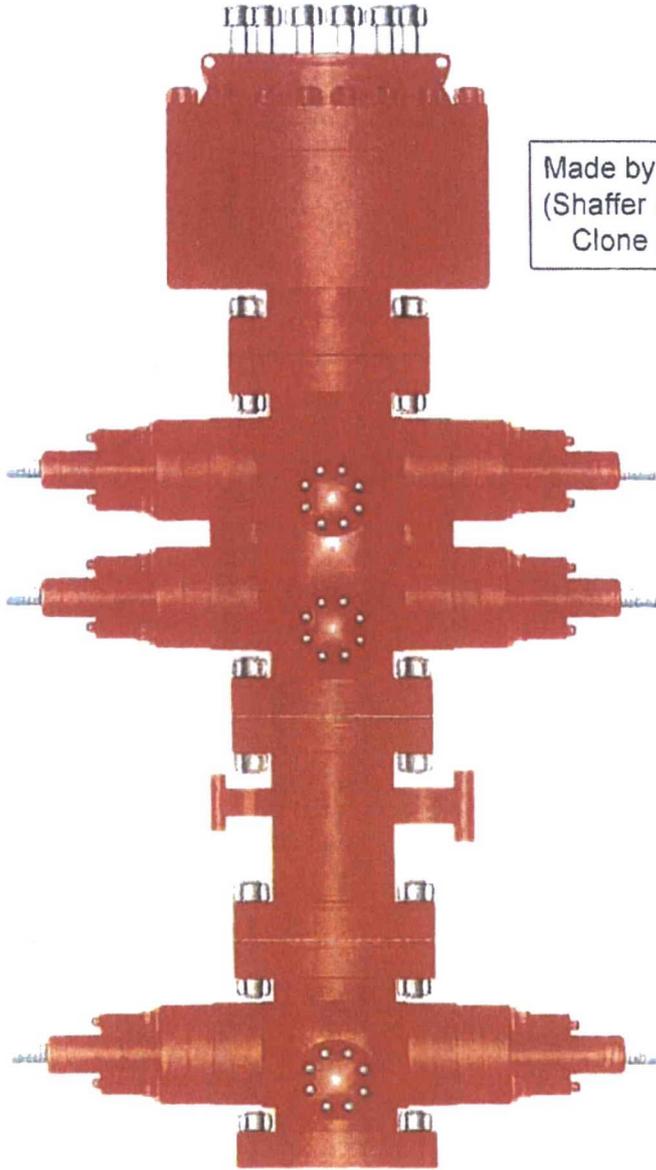
NC\_121H\_general\_drill\_plan\_20171120214952.pdf

**Other Variance attachment:**



**PATTERSON-UTI**  
*Well Control*

**RIG:** 297



Made by Cameron  
(Shaffer Spherical)  
Clone Annular

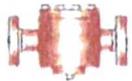
PATTERSON-UTI # PS2-628  
STYLE: New Shaffer Spherical  
BORE 13 5/8" PRESSURE 5,000  
HEIGHT: 48 1/2" WEIGHT: 13,800 lbs

PATTERSON-UTI # PC2-128  
STYLE: New Cameron Type U  
BORE 13 5/8" PRESSURE 10,000  
RAMS: TOP 5" Pipe BTM Blinds  
HEIGHT: 66 5/8" WEIGHT: 24,000 lbs

Length 40" Outlets 4" 10M  
DSA 4" 10M x 2" 10M

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

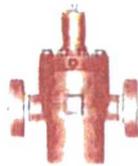
**WING VALVES**



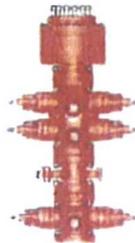
2" Check Valve



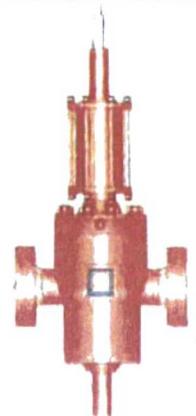
2" Manual Valve



2" Manual Valve



4" Manual Valve

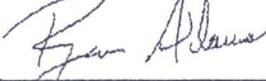


4" Hydraulic Valve



Midwest Hose  
& Specialty, Inc.

### Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
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	OKC	Hose Working Pressure	10000
Sales Order #	236404	Hose Lot # and Date Code	10490-01/13
Customer Purchase Order #	260471	Hose I.D. (Inches)	3"
Assembly Serial # (Pick Ticket #)	287918-2	Hose O.D. (Inches)	5.30"
Hose Assembly Length	10'	Armor (yes/no)	YES
Fittings			
End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
Stem (Heat #)	91996	Stem (Heat #)	91996
Ferrule (Part and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
Ferrule (Heat #)	37DA5631	Ferrule (Heat #)	37DA5631
Connection (Part #)	4 1/16 10K	Connection (Part #)	4 1/16 10K
Connection (Heat #)		Connection (Heat #)	
Dies Used	5.37	Dies Used	5.37
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	15 1/2		
Date Tested	Tested By		Approved By
12/8/2014			

December 9, 2014



Midwest Hose  
& Specialty, Inc.

### Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 284918

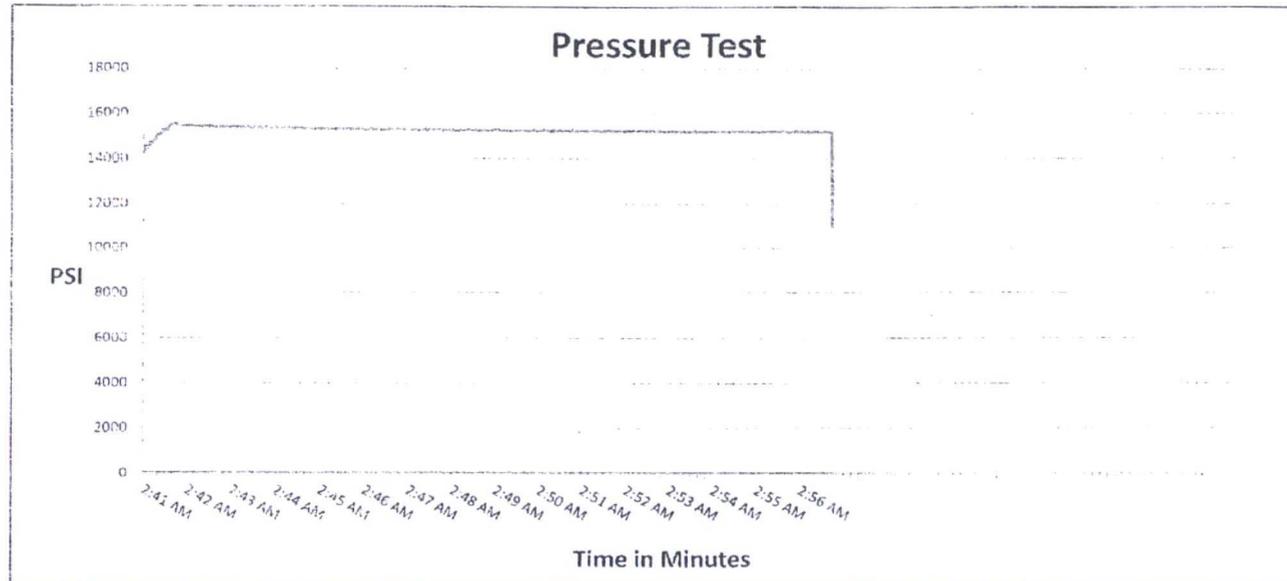
#### Hose Specifications

Hose Type	Length
Ck	20'
<u>I.D.</u>	<u>O.D.</u>
3"	4.77"
<u>Working Pressure</u>	<u>Burst Pressure</u>
10000 PSI	Standard Safety Multiplier Applies

#### Verification

Type of Fitting	Coupling Method
4-1/16 10K	Swage
<u>Die Size</u>	<u>Final O.D.</u>
5.37"	5.40"
<u>Hose Serial #</u>	<u>Hose Assembly Serial #</u>
10490	284918-1

*R2917*



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.

Tested By: Tyler Hill

*Tyler Hill*

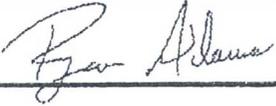
Approved By: Ryan Adams

*Ryan Adams*



Midwest Hose  
& Specialty, Inc.

### Certificate of Conformity

<b>Customer:</b> PATTERSON B&E		<b>Customer P.O.#</b> 260471	
<b>Sales Order #</b> 236404		<b>Date Assembled:</b> 12/8/2014	
<b>Specifications</b>			
<b>Hose Assembly Type:</b> Choke & Kill			
<b>Assembly Serial #</b> 287918-1		<b>Hose Lot # and Date Code</b> 10490-01/13	
<b>Hose Working Pressure (psi)</b> 10000		<b>Test Pressure (psi)</b> 15000	
<p>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.</p>			
<p><b>Supplier:</b> Midwest Hose &amp; Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129</p>			
<p><b>Comments:</b></p>			
<b>Approved By</b>		<b>Date</b>	
		12/9/2014	



Midwest Hose  
& Specialty, Inc.

### Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
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	OKC	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
Fittings			
End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
Stem (Heat #)	A141420	Stem (Heat #)	A141420
Ferrule (Part and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
Ferrule (Heat #)	37DA5631	Ferrule (Heat #)	37DA5631
Connection (Part #)	4 1/16 10K	Connection (Part #)	4 1/16 10K
Connection (Heat #)		Connection (Heat #)	
Dies Used	5.37	Dies Used	5.37
Hydrostatic Test Requirements			
Test Pressure (psi)	15,000	Hose assembly was tested with ambient water temperature.	
Test Pressure Hold Time (minutes)	16 3/4		
Date Tested	12/9/2014	Tested By	Approved By

## 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:  $DF_t=1.8$

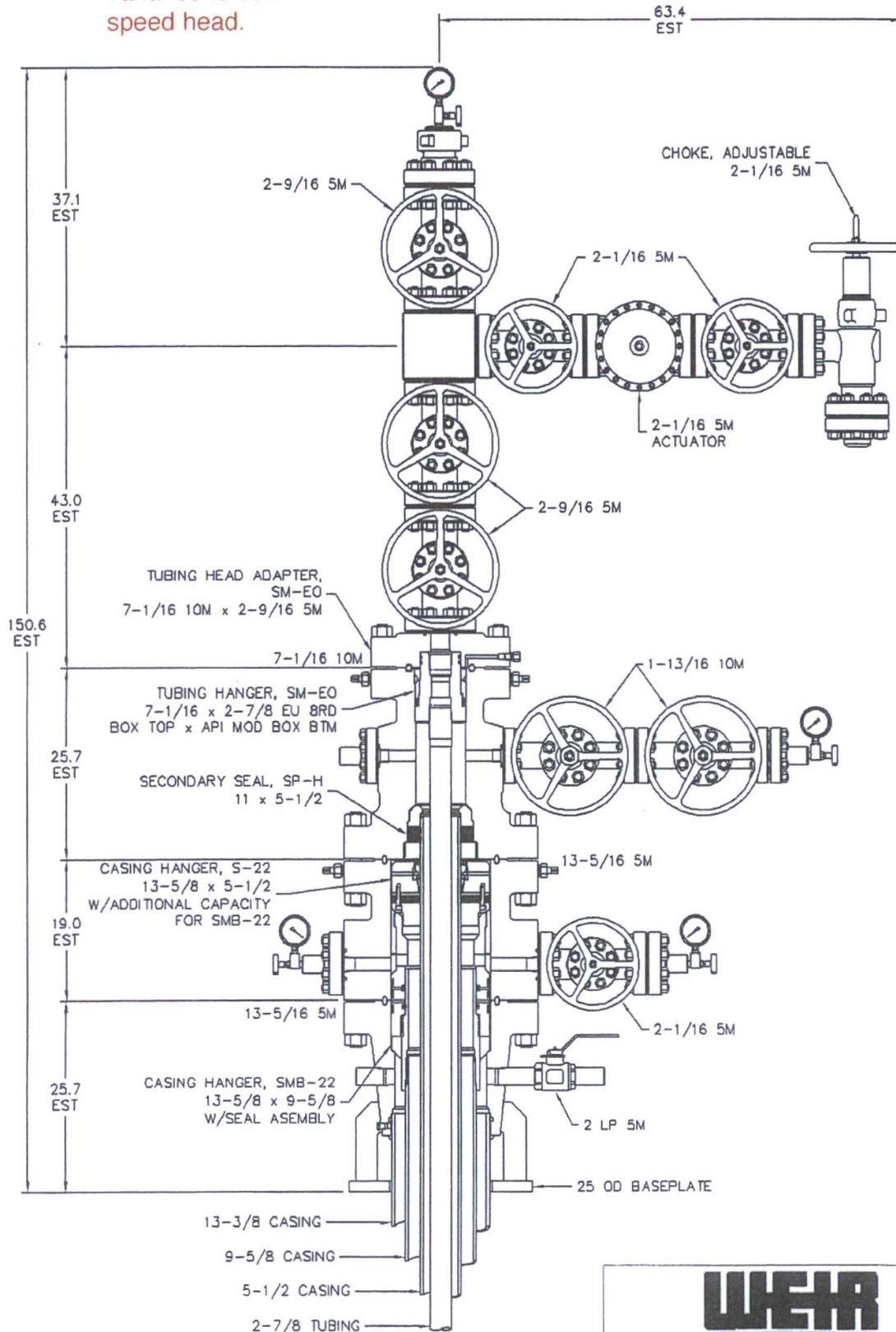
- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).

### 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).

Matador requesting variance to use speed head.



**NOTE:**  
DIMENSIONS SHOWN ON THIS DRAWING ARE ESTIMATES ONLY AND CAN VARY SIGNIFICANTLY DEPENDING ON RAW MATERIAL LENGTHS. NO GUARANTEE OF STACKUP HEIGHT IS IMPLIED. DIMENSIONS SHOWN SHOULD BE CONSIDERED FOR REFERENCE PURPOSES ONLY.

RESTRICTED CONFIDENTIAL DOCUMENT

THIS DRAWING AND ALL INFORMATION SHOWN HEREON ARE THE EXCLUSIVE PROPERTY OF SEABOARD INTERNATIONAL INC AND ARE SUBMITTED ON A CONFIDENTIAL BASIS ONLY. THE PURCHASER AGREES NOT TO REPRODUCE THE DRAWING, TO RETURN IT UPON REQUEST, AND THAT NO DISCLOSURE OF THE DRAWING OR THE INFORMATION SHOWN HEREON WILL BE MADE TO A THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF SEABOARD INTERNATIONAL INC.



5,000 PSI WELLHEAD ASSEMBLY  
13-3/8 x 9-5/8 x 5-1/2 x 2-7/8

DESIGN BY: RPL	SCALE: 1:13	DATE: 17APR15	REV:
CHECKED BY:	DRAWING NO. QD-000475		
APPROVED BY:			

---

**BLANKING DIMENSIONS**

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Blanking Dimensions

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- (1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.
- (2) Structural rating, pure bending to yield (i.e no other loads applied)
- (3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at [licensees@oilfield.tenaris.com](mailto:licensees@oilfield.tenaris.com). Torque values may be further reviewed. For additional information, please contact us at [contact-tenarishydril@tenaris.com](mailto:contact-tenarishydril@tenaris.com)

APD ID: 10400024798

Submission Date: 11/21/2017

Highlighted data  
reflects the most  
recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED COM

Well Number: 121H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

## Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

NC\_121H\_road\_map\_20171120215357.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:

NC\_121H\_new\_road\_map\_20171120215516.pdf

New road type: RESOURCE

Length: 1404.27

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 5

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:

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 121H

**Water source use type:** DUST CONTROL, INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING

**Water source type:** GW WELL

**Describe type:**

**Source longitude:**

**Source latitude:**

**Source datum:**

**Water source permit type:** PRIVATE CONTRACT

**Source land ownership:** PRIVATE

**Water source transport method:** TRUCKING

**Source transportation land ownership:** STATE

**Water source volume (barrels):** 20000

**Source volume (acre-feet):** 2.577862

**Source volume (gal):** 840000

**Water source and transportation map:**

NC\_121H\_water\_source\_map\_20171120221001.pdf

**Water source comments:** WATER WILL BE TRUCKED FROM EXISTING WATER STATIONS ON PRIVATE LAND. BERRY'S WATER STATION (CP 00802) IS IN NWNE 2-21s-33e.

**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:**

**Additional information attachment:**

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 121H

**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** ROLL-OFF MUD TANKS STORED ON SITE AND HAULED OFF FOR DISPOSAL TO STATE APPROVED FACILITY IN HALFWAY, NM.

**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:**

NC\_121H\_well\_site\_layout\_20171120222146.pdf

**Comments:**

## Section 10 - Plans for Surface Reclamation

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** NINA CORTELL

**Multiple Well Pad Number:** SLOT 1

**Recontouring attachment:**

NC\_121H\_recontour\_plat\_20171120222234.pdf

NC\_121H\_interim\_reclamation\_20171130145956.pdf

**Drainage/Erosion control construction:** Crowned and ditched

**Drainage/Erosion control reclamation:** Harrowed on the contour

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED COM

Well Number: 121H

Seed harvest description attachment:

## Seed Management

### Seed Table

Seed type: Seed source:  
Seed name:  
Source name: Source address:  
Source phone:  
Seed cultivar:  
Seed use location:  
PLS pounds per acre: Proposed seeding season:

### Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
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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/State Land Office standards

Weed treatment plan attachment:

Monitoring plan description: To BLM/State Land Office standards

Monitoring plan attachment:

Success standards: To BLM/State Land Office satisfaction

Pit closure description: NO PIT

Pit closure attachment:

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 121H

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

## Section 12 - Other Information

**Right of Way needed?** NO

**Use APD as ROW?**

**ROW Type(s):**

## ROW Applications

**SUPO Additional Information:** GENERAL SUPO ATTACHED SURFACE USE STATEMENT ATTACHED

**Use a previously conducted onsite?** YES

**Previous Onsite information:** ON-SITE WITH VANCE WOLF (BLM), JUNE 2, 2017. LONE MOUNTAIN WILL INSPECT AND FILE AN ARCHAEOLOGY REPORT.

## Other SUPO Attachment

NC\_121H\_general\_SUPO\_20171120223809.pdf

NC\_121H\_surface\_use\_statement\_20171121113436.pdf

## 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:

Describe 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:

Injection well type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Injection well name:

Injection well API number:

## 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:



United States Department of the Interior  
Bureau of Land Management  
Carlsbad Field Office



Refer to: 3160-3

To: AFM, Lands & Minerals, CFO  
From: Geologist, CFO  
Subject: Geologic Review of Application for Permit to Drill

COPY

Operator: Matador Operating Co.

Well Name and Number: NINA CORTELL FED COM-121H

Potash: No

Location: SHL:150'/S.& 585'/W. SEC003 T022S, R032E.(SWSW)

County Lea Lease Number: NMNM135247 APD Received: 11-21-2017

Ground Level Elevation: 3807 Surface Geology: Qe/Qp-Eolian deposits/Piedmont alluvial deposits

TVD: 10996 MD: 16653 BH Mud Weight: 9

BHP: 5146 MASP: 2727

1. Geologic Marker Tops (from reports on surrounding wells):

	BILBREY FEDERAL COM #001 3002527472 T22S R32E Sec 4 660FNL 1980FWL Elevation Depth	OTTOWA STATE #001 3002531986 T22S R32E Sec 3 1980FSL 1980FWL Elevation Depth	BARR NONE FEDERAL #001 3002532221 T22S R32E Sec 10 1980FNL 660FWL Elevation Depth	BOOTLEG 11 FEDERAL COM #002 3002537083 T22S R32E Sec 11 1980FNL 1980FWL Elevation Depth	Proposed Well NINA CORTELL FED COM-121H T022S, R032E.(SWSWSEC003 150'/S.& 585'/W Unit Elevation Estimated Depth
Geologic Marker					
Rustler	-	-	-	-	1058
Top of Salt	749	744	800	892	1425
Castile	1075	-	-	1190	3533
Lamar	-	-	-	-	4980
Bell Canyon	-	-	-	-	5035
Cherry Canyon	4820	4850	4847	4840	5954
Brushy Canyon	4950	4931	4910	4920	6918
Bone Spring Lime	5757	5825	5800	5802	8916
1st BS Sand	7000	7056	7007	6990	9636
2nd BS Lime	8792	8820	8800	8678	10274
2nd BS Sand	9813	-	-	-	10481
3rd BS Lime	-	-	-	-	10616
3rd BS Sand	10447	-	-	-	11550
Wolfcamp	-	-	-	-	11936
Red Beds	11500	-	-	11619	449
BX BLM	11897	-	-	11986	4861

