

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

**OCD** FORM APPROVED  
ON 07/10/14  
Expires October 31, 2014

5a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM135247
6. Name of Operator MATADOR PRODUCTION COMPANY (228937)		6. If Indian, Allottee or Tribe Name
7a. Address 5400 LBJ Freeway, Suite 1500 Dallas TX 7524		7. If Unit or CA Agreement, Name and No.
7b. Phone No. (include area code) (972)371-5200		8. Lease Name and Well No. (32084) NINA CORTELL FED COM 122H
8. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SESW / 150 FSL / 1906 FWL / LAT 32.4138939 / LONG -103.6649635 At proposed prod. zone LOT 3 / 240 FNL / 2309 FWL / LAT 32.4273206 / LONG -103.6636948		9. API Well No. 20-025-44018
9. Distance in miles and direction from nearest town or post office* 27 miles		10. Field and Pool, or Exploratory (5694) BILBREY BASIN / BONE SPRING
10. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 150 feet		11. Sec., T. R. M. or Blk. and Survey or Area SEC 3 / T22S / R32E / NMP
11. Distance from proposed location* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 30 feet		12. County or Parish LEA
12. Elevations (Show whether DF, KDB, RT, GL, etc.) 3808 feet		13. State NM
13. Distance from proposed* location to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 30 feet		14. Attachments
14. Distance from proposed* location to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 30 feet		15. Spacing Unit dedicated to this well 159.92
15. Distance from proposed* location to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 30 feet		16. BLM/BIA Bond No. on file FED: NMB001079
16. Approximate date work will start* 02/01/2018		17. Estimated duration 90 days

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 12/15/2017
Title President		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 06/18/2018
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)

\*(Instructions on page 2)

GCP Rec 07/23/18

Ka 07/23/18

**APPROVED WITH CONDITIONS**  
Approval Date: 06/18/2018

Doble 8/1/18

## 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 1:** 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 well, 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 directionally 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.

## 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 well 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 will 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 collects this information to allow 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 Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

## **Additional Operator Remarks**

### **Location of Well**

1. SHL: SESW / 150 FSL / 1906 FWL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4138939 / LONG: -103.6649635 ( TVD: 0 feet, MD: 0 feet )  
PPP: SENW / 2640 FSL / 2300 FWL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.420744 / LONG: -103.663673 ( TVD: 10978 feet, MD: 13324 feet )  
PPP: SESW / 150 FSL / 1906 FWL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4138939 / LONG: -103.6649635 ( TVD: 0 feet, MD: 0 feet )  
BHL: LOT 3 / 240 FNL / 2309 FWL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4273206 / LONG: -103.6636948 ( TVD: 10976 feet, MD: 15629 feet )

## **BLM Point of Contact**

Name: Katrina Ponder  
Title: Geologist  
Phone: 5752345969  
Email: kponder@blm.gov

## **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.

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**Approval Date: 06/18/2018**

(Form 3160-3, page 4)

## **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).

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- 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**

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Burst:  $DF_b=1.125$

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

Tensile:  $DF_t=1.8$

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

### **Intermediate #1 Casing**

Collapse:  $DF_c=1.125$

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Tensile:  $DF_t=1.8$

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### **Production Casing**

Collapse:  $DF_c=1.125$

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- 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:  $DF_t=1.8$

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

### **Surface Casing**

Collapse:  $DF_c=1.125$

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Burst:  $DF_b=1.125$

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

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Collapse:  $DF_c=1.125$

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Tensile:  $DF_t=1.8$

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



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

# Operator Certification Data Report

06/21/2018

## 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:** 12/01/2017

**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:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**



APD ID: 10400025576

Submission Date: 12/15/2017

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED COM

Well Number: 122H

Well Type: OIL WELL

Well Work Type: Drill



Show Final Text

**Section 1 - General**

APD ID: 10400025576

Tie to previous NOS?

Submission Date: 12/15/2017

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: NMNM135247

Lease Acres: 439.68

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: NINA CORTELL FED COM

Well Number: 122H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BILBREY BASIN

Pool Name: BONE SPRING

Is the proposed well in an area containing other mineral resources? POTASH

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED COM

Well Number: 122H

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: SLOT Number: 2

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: 30 FT

Distance to lease line: 150 FT

Reservoir well spacing assigned acres Measurement: 159.92 Acres

Well plat: NC\_122H\_Plat\_20171215114441.pdf

Well work start Date: 02/01/2018

Duration: 90 DAYS

### Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 18329

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	150	FSL	190 6	FWL	22S	32E	3	Aliquot SESW	32.41389 39	- 103.6649 635	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	380 8	0	0
KOP Leg #1	150	FSL	190 6	FWL	22S	32E	3	Aliquot SESW	32.41389 39	- 103.6649 635	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 659 7	105 10	104 05
PPP Leg #1	150	FSL	190 6	FWL	22S	32E	3	Aliquot SESW	32.41389 39	- 103.6649 635	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	380 8	0	0

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED COM

Well Number: 122H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
PPP Leg #1	264 0	FSL	230 0	FWL	22S	32E	3	Aliquot SENW 4	32.42074 4	- 103.6636 73	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 135247	- 717 0	133 24	109 78
EXIT Leg #1	240	FNL	230 9	FWL	22S	32E	3	Lot 3	32.42732 06	- 103.6636 948	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 135247	- 716 8	156 29	109 76
BHL Leg #1	240	FNL	230 9	FWL	22S	32E	3	Lot 3	32.42732 06	- 103.6636 948	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 135247	- 716 8	156 29	109 76

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED COM

Well Number: 122H

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 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\_122H\_Choke\_20171215140223.pdf

BOP Diagram Attachment:

NC\_122H\_BOP\_20171215140236.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	3808		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	3808		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	15629	0	10976	3808		15629	P-110	20	OTHER - BTC/TPX	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:** 122H

**Casing Attachments**

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**Casing ID:** 1      **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

NC\_122H\_Casign\_Design\_Assumptions\_20171215140333.pdf

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**Casing ID:** 2      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

NC\_122H\_Casign\_Design\_Assumptions\_20171215140355.pdf

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**Casing ID:** 3      **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

NC\_122H\_Casign\_Design\_Assumptions\_20171215140429.pdf

---

**Section 4 - Cement**

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 122H

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		0	1200	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	1562 9	886	2.35	11.5	2082	35	TXI	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Tail		0	1562 9	1530	1.39	13.2	2126	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:** 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.

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

**Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1200	OTHER : Fresh water spud	8.3	8.3							
5000	1562 9	OTHER : Fresh water & cut brine	9	9							
1200	5000	OTHER : Brine water	10	10							

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 122H

### 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 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.

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

CBL,GR

**Coring operation description for the well:**

No core or drill stem test is planned.

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 6000

**Anticipated Surface Pressure:** 3584.84

**Anticipated Bottom Hole Temperature(F):** 155

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

NC\_122H\_H2S\_Plan\_20171215140711.pdf

### Section 8 - Other Information

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

NC\_122H\_Horizontal\_Drill\_Plan\_20171215140751.pdf

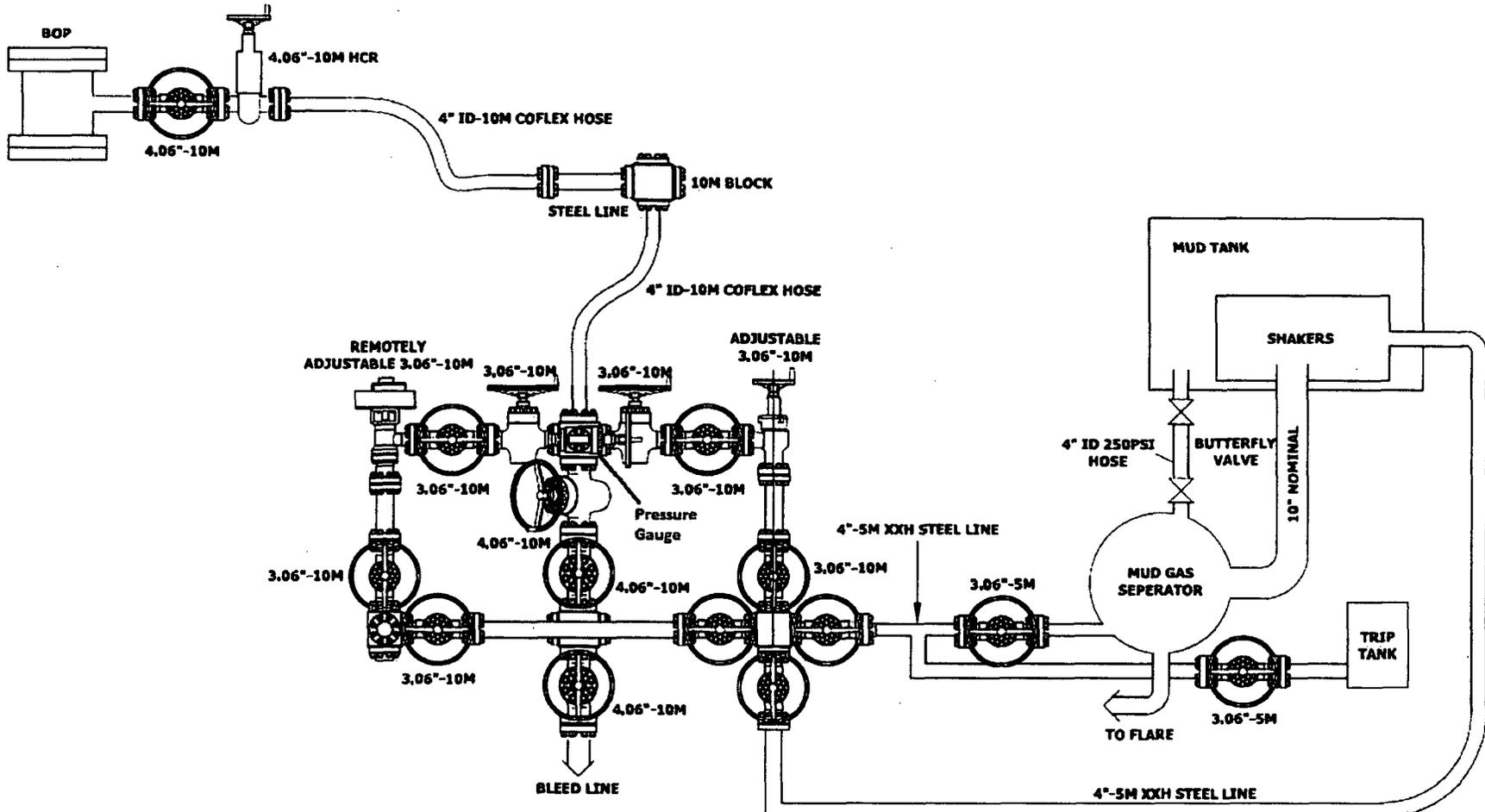
**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

NC\_122H\_General\_Drill\_Plan\_20171215140806.pdf

NC\_122H\_Speedhead\_Specs\_20171215140816.pdf

**Other Variance attachment:**



WEIGHT NOTE & TOLERANCES UNLESS OTHERWISE SPECIFIED.

GENERAL WELDING NOTES:  
 ALL WELDS TO BE FULL PENETRATION BUTT JOINTS.  
 ALL WELDS TO BE MADE IN ACCORDANCE WITH THE LATEST EDITION OF THE ASME SECTION VIII, DIVISION 1.  
 ALL WELDS TO BE MADE BY A WELDER QUALIFIED TO THE LATEST EDITION OF THE ASME SECTION VIII, DIVISION 1.  
 ALL WELDS TO BE MADE IN ACCORDANCE WITH THE LATEST EDITION OF THE ASME SECTION VIII, DIVISION 1.

MACHINING OPERATIONS:  
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REV	DATE	DESCRIPTION	CP	CD
01	8/2/18	ISSUED FOR REV ORIENTATION		
02	1/16/19	ISSUED FOR INFORMATION		
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 DRILLING COMPANY LLC  
 CONFIDENTIAL AND PROPRIETARY  
 NOT TO BE DISTRIBUTED

**PATTERSON-UTI**  
 DRILLING COMPANY LLC

**CHOKE MANIFOLD**

10M CHOKE ARRANGEMENT  
 RIG 257

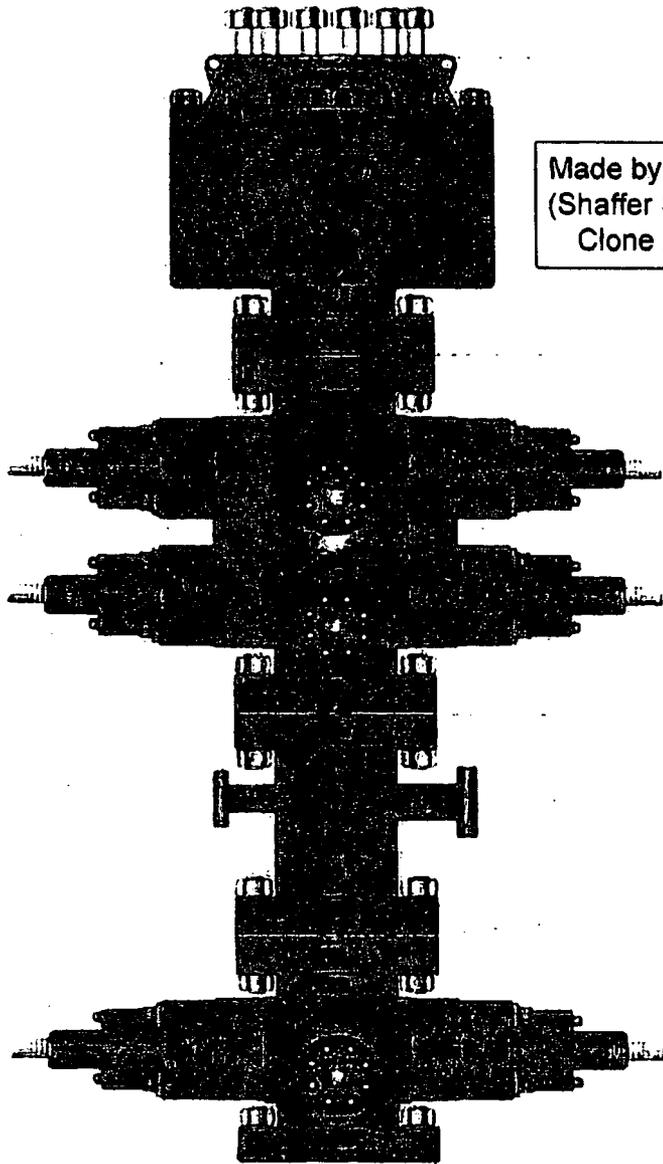
DATE: R0207-D.001.LAY.00

REV: 1 OF 1



# PATTERSON-UTI

Well Control



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

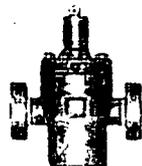
Length 40" Outlets 4" 10M  
DSA 4" 10M x 2" 10M

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

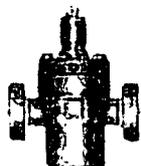
### WING VALVES



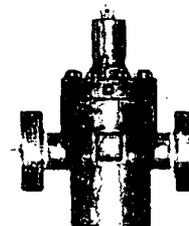
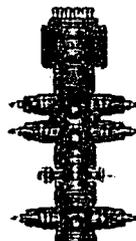
2" Check Valve



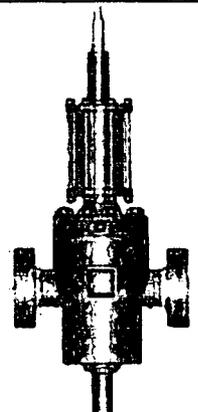
2" Manual Valve



2" Manual Valve



4" Manual Valve



4" Hydraulic Valve



Midwest Hose & Specialty, Inc.

# Internal Hydrostatic Test Graph

December 8, 2014

Customer: Patterson

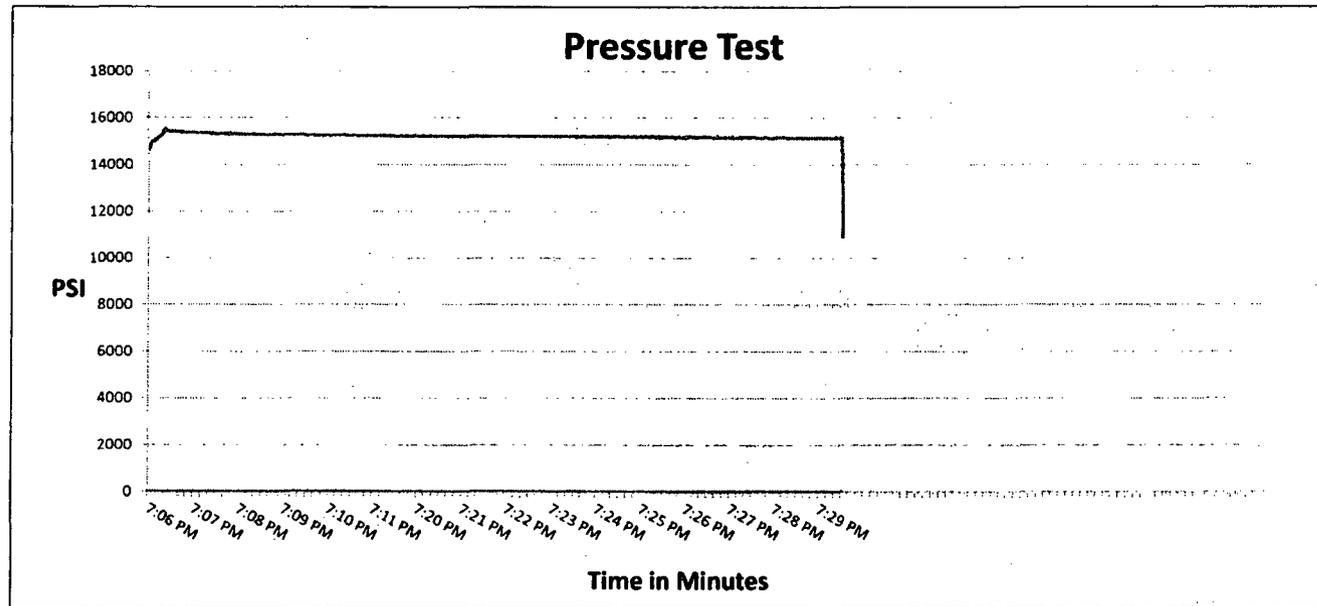
Pick Ticket #: 284918

### Hose Specifications

<b>Hose Type</b>	<b>Length</b>
Ck	10'
<b>I.D.</b>	<b>O.D.</b>
3"	4.79"
<b>Working Pressure</b>	<b>Burst Pressure</b>
10000 PSI	Standard Safety Multiplier Applies

### Verification

<b>Type of Fitting</b>	<b>Coupling Method</b>
4-1/16 10K	Swage
<b>Die Size</b>	<b>Final O.D.</b>
5.37"	5.37"
<b>Hose Serial #</b>	<b>Hose Assembly Serial #</b>
10490	284918-2



**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.

**Tested By:** Tyler Hill

**Approved By:** Ryan Adams



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	12/8/2014	Tested By	Approved By



Midwest Hose  
& Specialty, Inc.

### Certificate of Conformity

Customer: **PATTERSON B&E**

Customer P.O.# **260471**

Sales Order # **236404**

Date Assembled: **12/8/2014**

### Specifications

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

**12/9/2014**



Midwest Hose & Specialty, Inc.

# Internal Hydrostatic Test Graph

December 9, 2014

Customer: Patterson

Pick Ticket #: 284918

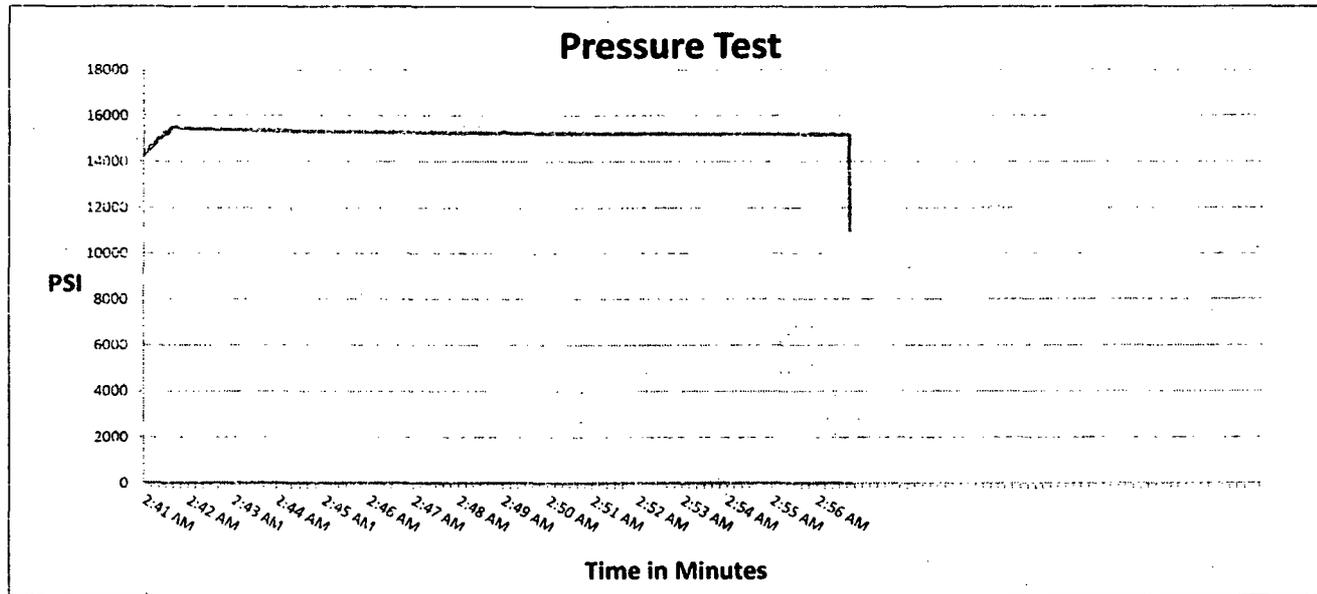
### Hose Specifications

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

### Verification

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

*R297*



**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

**Approved By:** Ryan Adams



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 #)	287918-1	Hose O.D. (Inches)	5.30"
Hose Assembly Length	20'	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 #)	V3579	Connection (Heat #)	V3579
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
12/9/2014			





Midwest Hose  
& Specialty, Inc.

## Internal Hydrostatic Test Graph

December 9, 2014

Customer: Patterson

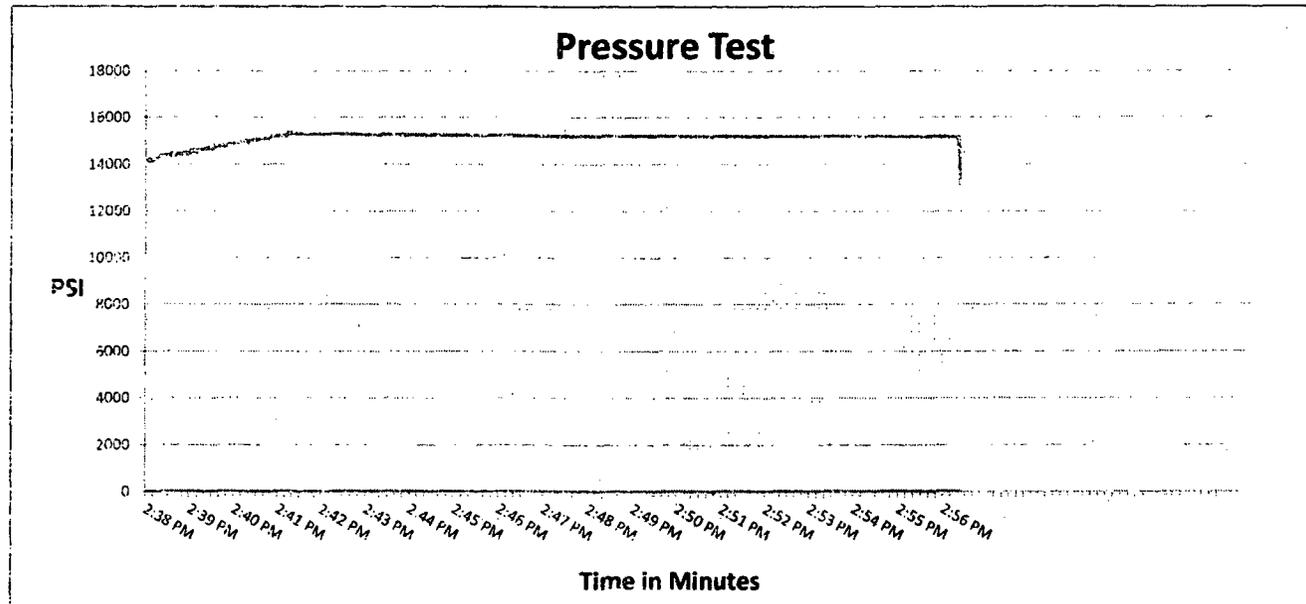
Pick Ticket #: 284918

### Hose Specifications

<b>Hose Type</b>	<b>Length</b>
Mud	70'
<b>I.D.</b>	<b>O.D.</b>
3"	4.79"
<b>Working Pressure</b>	<b>Burst Pressure</b>
10000 PSI	Standard Safety Multiplier Applies

### Verification

<b>Type of Fitting</b>	<b>Coupling Method</b>
4 1/16 10K	Swage
<b>Die Size</b>	<b>Final O.D.</b>
5.37"	5.37"
<b>Hose Serial #</b>	<b>Hose Assembly Serial #</b>
10490	284918-3



**Test Pressure**  
15000 PSI

**Time Held at Test Pressure**  
16 3/4 Minutes

**Actual Burst Pressure**

**Peak Pressure**  
15410 PSI

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

**Tested By:** Tyler Hill

**Approved By:** Ryan Adams



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	Tested By		Approved By
12/9/2014			



Midwest Hose  
& Specialty, Inc.

### Certificate of Conformity

Customer: **PATTERSON B&E**

Customer P.O.# **260471**

Sales Order # **236404**

Date Assembled: **12/8/2014**

### Specifications

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

**12/9/2014**

For the latest performance data, always visit our website: [www.tenaris.com](http://www.tenaris.com)

July 15 2015



**Connection:** TenarisXP™ BTC  
**Casing/Tubing:** CAS  
**Coupling Option:** REGULAR

**Size:** 5.500 in.  
**Wall:** 0.361 in.  
**Weight:** 20.00 lbs/ft  
**Grade:** P110-IC  
**Min. Wall Thickness:** 87.5 %



**PIPE BODY DATA**

**GEOMETRY**

Nominal OD	<b>5.500 in.</b>	Nominal Weight	<b>20.00 lbs/ft</b>	Standard Drift Diameter	<b>4.653 in.</b>
Nominal ID	<b>4.778 in.</b>	Wall Thickness	<b>0.361 in.</b>	Special Drift Diameter	<b>N/A</b>
Plain End Weight	<b>19.83 lbs/ft</b>				

**PERFORMANCE**

Body Yield Strength	<b>641 x 1000 lbs</b>	Internal Yield	<b>12630 psi</b>	SMYS	<b>110000 psi</b>
Collapse	<b>12100 psi</b>				

**TENARISXP™ BTC CONNECTION DATA**

**GEOMETRY**

Connection OD	<b>6.100 in.</b>	Coupling Length	<b>9.450 in.</b>	Connection ID	<b>4.766 in.</b>
Critical Section Area	<b>5.828 sq. in.</b>	Threads per in.	<b>5.00</b>	Make-Up Loss	<b>4.204 in.</b>

**PERFORMANCE**

Tension Efficiency	<b>100 %</b>	Joint Yield Strength	<b>641 x 1000 lbs</b>	Internal Pressure Capacity <sup>(1)</sup>	<b>12630 psi</b>
Structural Compression Efficiency	<b>100 %</b>	Structural Compression Strength	<b>641 x 1000 lbs</b>	Structural Bending <sup>(2)</sup>	<b>92 °/100 ft</b>
External Pressure Capacity	<b>12100 psi</b>				

**ESTIMATED MAKE-UP TORQUES<sup>(2)</sup>**

Minimum	<b>11270 ft-lbs</b>	Optimum	<b>12520 ft-lbs</b>	Maximum	<b>13770 ft-lbs</b>
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**OPERATIONAL LIMIT TORQUES**

Operating Torque	<b>21500 ft-lbs</b>	Yield Torque	<b>23900 ft-lbs</b>		
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**BLANKING DIMENSIONS**Blanking Dimensions

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

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

(3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at [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: 10400025576

Submission Date: 12/15/2017

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED COM

Well Number: 122H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data  
relates to most  
recent change

Show Final Text

### Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

NC\_122H\_Road\_Map\_20171215140840.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\_122H\_New\_Road\_Map\_20171215140855.pdf

New road type: RESOURCE

Length: 83.13 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:** 122H

**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:** Upgrading will consist of draining and/or patching ten potholes with caliche. The potholes are located (from east to west and in NAD 83) at: 32.41494, -103.67654 32.41504, -103.67879 32.41512, -103.68060 32.41702, -103.68328 32.41873, -103.68333 32.42312, -103.68326 32.42402, -103.68326 32.42804, -103.68354 32.43641, -103.68974 32.43644, -103.69497

**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:**

NC\_122H\_Well\_Map\_20171215140923.pdf

**Existing Wells description:**

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

**Submit or defer a Proposed Production Facilities plan?** DEFER

**Estimated Production Facilities description:** No pipeline or power line plans have been finalized at this time. Production equipment will be located on the south side of the pad.

### Section 5 - Location and Types of Water Supply

#### Water Source Table

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 122H

**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:** WATER WELL

**Source land ownership:** PRIVATE

**Water source transport method:** PIPELINE

**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\_122H\_Water\_Source\_20171215141008.pdf

**Water source comments:**

**New water well?** NO

**New Water Well Info**

**Well latitude:**

**Well Longitude:**

**Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):**

**Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):**

**Well casing type:**

**Well casing outside diameter (in.):**

**Well casing inside diameter (in.):**

**New water well casing?**

**Used casing source:**

**Drilling method:**

**Drill material:**

**Grout material:**

**Grout depth:**

**Casing length (ft.):**

**Casing top depth (ft.):**

**Well Production type:**

**Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 122H

### Section 6 - Construction Materials

**Construction Materials description:** NM One Call (811) will be notified before construction starts. Top 6" of soil and brush will be stockpiled west of the pad. V-door will face south. Closed loop drilling system will be used. Caliche will be hauled from an existing caliche pit on private (Mills) land in E2NE4 3-22s-32e.

**Construction Materials source location attachment:**

NC\_122H\_Construction\_Methods\_20171215141057.pdf

### Section 7 - Methods for Handling Waste

**Waste type:** DRILLING

**Waste content description:** drill cuttings, mud, salts, and other chemicals

**Amount of waste:** 2000 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** Steel tanks

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

**Disposal type description:**

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

### Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

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

**Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)**

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

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

### Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** YES

**Description of cuttings location** Steel tanks on pad

**Cuttings area length (ft.)** **Cuttings area width (ft.)**

**Cuttings area depth (ft.)** **Cuttings area volume (cu. yd.)**

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 122H

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

**W**Cuttings 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\_122H\_Well\_Site\_Layout\_20171215141201.pdf

**Comments:**

### Section 10 - Plans for Surface Reclamation

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** SLOT

**Multiple Well Pad Number:** 2

**Recontouring attachment:**

Nc\_122H\_Recontur\_Plat\_20171215141221.pdf

NC\_122H\_Interim\_Reclamation\_Diagram\_20171215141228.pdf

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

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

<b>Well pad proposed disturbance (acres):</b> 3.65	<b>Well pad interim reclamation (acres):</b> 0.91	<b>Well pad long term disturbance (acres):</b> 2.74
<b>Road proposed disturbance (acres):</b> 0.06	<b>Road interim reclamation (acres):</b> 0	<b>Road long term disturbance (acres):</b> 0.06
<b>Powerline proposed disturbance (acres):</b> 0	<b>Powerline interim reclamation (acres):</b> 0	<b>Powerline long term disturbance (acres):</b> 0
<b>Pipeline proposed disturbance (acres):</b> 0	<b>Pipeline interim reclamation (acres):</b> 0	<b>Pipeline long term disturbance (acres):</b> 0
<b>Other proposed disturbance (acres):</b> 0	<b>Other interim reclamation (acres):</b> 0	<b>Other long term disturbance (acres):</b> 0
<b>Total proposed disturbance:</b> 3.71	<b>Total interim reclamation:</b> 0.91	<b>Total long term disturbance:</b> 2.8

**Disturbance Comments:**

**Reconstruction method:** Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad 25% (0.91 acre) by removing caliche and reclaiming a 120' x 330' area in the northwest part of the pad. This will leave 2.74 acres for the production equipment (e. g., tank battery, heater-treaters, separators, flare/CBU),

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 122H

pump jacks, and tractor-trailer turn around. 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 State Land Office's requirements.

**Topsoil redistribution:** Enough stockpiled topsoil will be retained to cover the remainder of the pad when the well is plugged. Once the last well is plugged, then the rest of the pad and 83.13' of new road will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.

**Soil treatment:** None

**Existing Vegetation at the well pad:**

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:**

**Existing Vegetation Community at the road attachment:**

**Existing Vegetation Community at the pipeline:**

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:**

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?** NO

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** NO

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** NO

**Seed harvest description:**

**Seed harvest description attachment:**

**Seed Management**

**Seed Table**

**Seed type:**

**Seed source:**

**Seed name:**

**Source name:**

**Source address:**

**Source phone:**

**Seed cultivar:**

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 122H

**Seed use location:**

**PLS pounds per acre:**

**Proposed seeding season:**

<b>Seed Summary</b>	
<b>Seed Type</b>	<b>Pounds/Acre</b>

**Total 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 State Land Office/BLM satisfaction

**Weed treatment plan attachment:**

**Monitoring plan description:** To State Land Office/BLM standards

**Monitoring plan attachment:**

**Success standards:** To State Land Office/BLM satisfaction

**Pit closure description:** No pit

**Pit closure attachment:**

**Section 11 - Surface Ownership**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 122H

**NPS Local Office:**

**State Local Office:** NM STATE LAND OFFICE, PO BOX 1148, SANTA FE NM 87504

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:** STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** NM STATE LAND OFFICE, PO BOX 1148, SANTA FE NM 87504

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**Operator Name:** MATADOR PRODUCTION COMPANY

**Well Name:** NINA CORTELL FED COM

**Well Number:** 122H

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** NM STATE LAND OFFICE, PO BOX 1148, SANTA FE NM 87504

**Military Local Office:**

**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:**

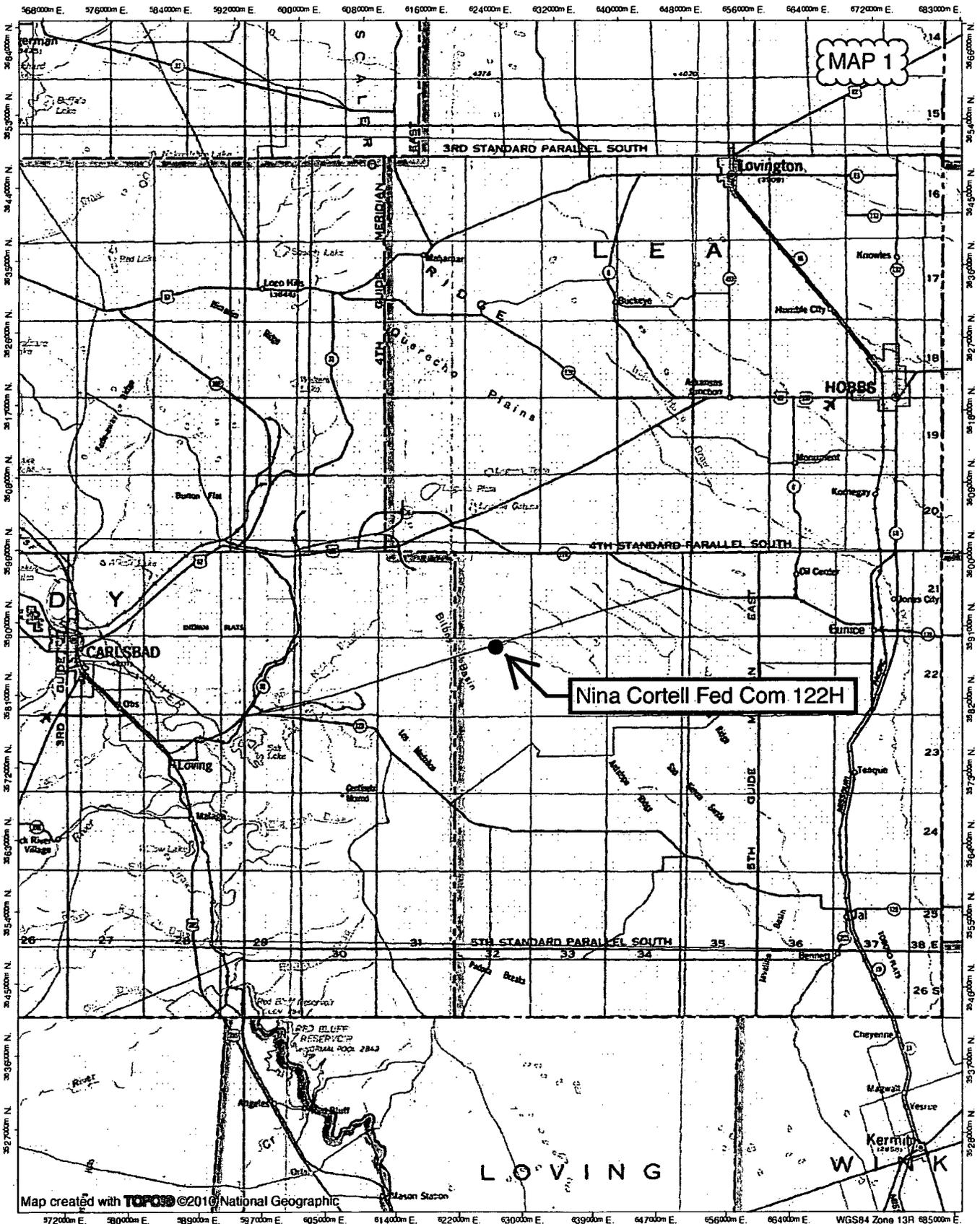
**Use a previously conducted onsite?** YES

**Previous Onsite Information:** On site inspection was held with Vance Wolf (BLM) on June 2, 2017. Lone Mountain will inspect and file an archaeology report.

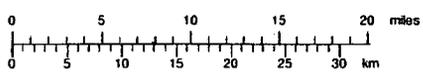
### Other SUPO Attachment

NC\_122H\_General\_SUPO\_20171215141349.pdf

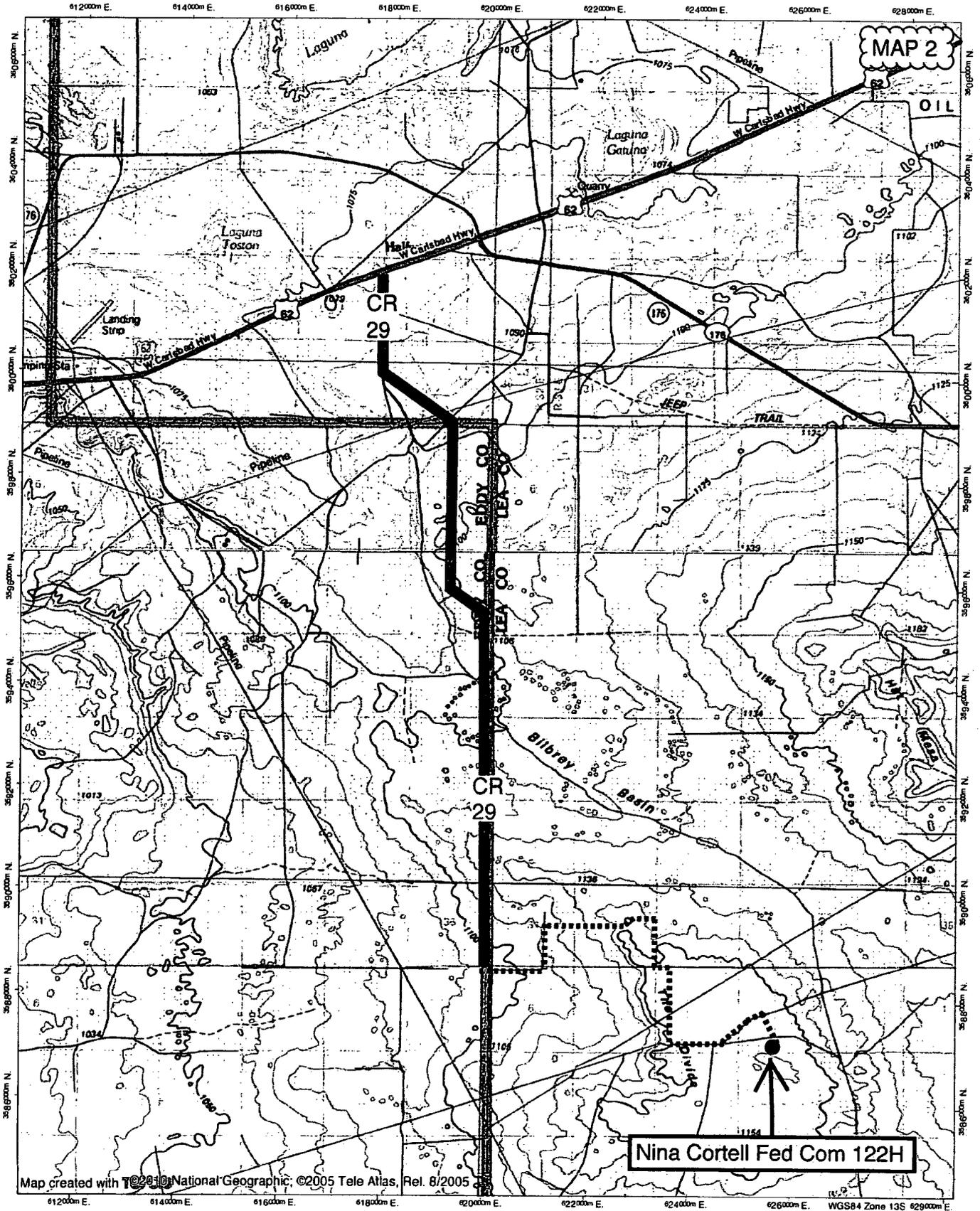
NC\_122H\_Surface\_Use\_Agreement\_20171215141403.pdf



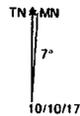
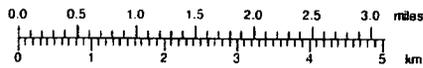
Map created with TOPO! ©2016 National Geographic



TN & MN



Map created with National Geographic. ©2005 Tele Atlas. Rel. 8/2005



MAP 3

1 mile radius

BHL O BLM O&G lease  
NMNM-135247

fee

access

VC-0075  
-0000

SHL

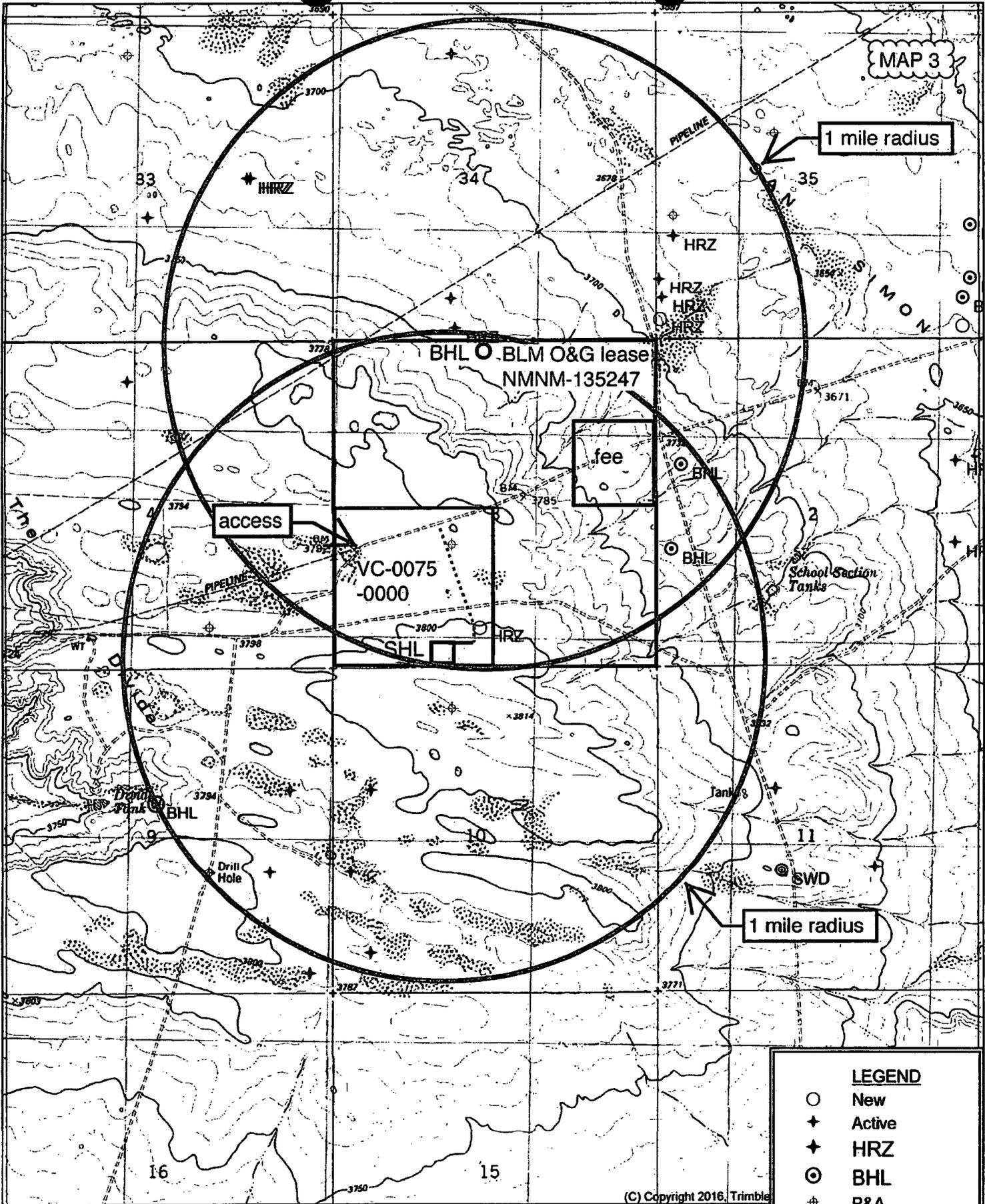
1 mile radius

LEGEND	
○	New
+	Active
✦	HRZ
⊙	BHL
⊕	P&A
	INJ
	SWD
	Water

(C) Copyright 2016, Trimble



Quad: THE DIVIDE  
Scale: 1 inch = 2,000 ft.



SCALE: 1" = 1000'

SECTION 3, TOWNSHIP 22-S, RANGE 32-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916

MAP 4

N 89°32'48" E, 2639.12' 1916      N 89°20'28" E, 2642.90' 1916

**LINE A TABLE**

LINE	BEARING	DISTANCE
A2	N 07°08'55" E	112.41'
A4	N 45°37'09" E	251.91'
A6	N 72°50'19" E	1147.95'
A7	S 15°12'17" E	435.58'
A8	S 27°29'16" E	999.75'
A9	S 07°09'16" E	158.21'
A10	S 00°13'47" W	481.42'
A11	S 89°24'17" W	83.13'
A12	S 89°24'36" W	430.00'
A13	S 89°24'36" W	891.14'

**CURVE A TABLE**

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
A1	94.10'	69.55'	67.97'	N 25°46'37" E
A3	606.44'	469.57'	457.92'	N 37°41'04" E
A5	244.06'	108.39'	107.50'	N 59°50'40" E

**LINE B TABLE**

LINE	BEARING	DISTANCE
B1	N 89°24'17" E	362.85'

**LEGEND**

- SECTION LINE
- SURVEYED BASELINE A
- SURVEYED BASELINE B
- - - CONTINUED BASELINE
- - - EDGE OF EASEMENT
- R — TRACT BORDER
- == == ROAD WAY
- - - EXISTING PIPELINE
- POINT OF INTERSECTION
- MONUMENT

FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916.

FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916

FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916

P.I./LINE "B" B.O.L.  
X=747960.82  
Y=515189.52

FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916

FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916

LINE "A" P.O.B.  
X=745674.04  
Y=516031.08

LINE "A" E.O.L.  
X=748556.62  
Y=515175.05

LINE "B" P.O.E.  
X=748323.64  
Y=515193.28

NINA CORTELL FED COM #202H  
NINA CORTELL FED COM #132H  
NINA CORTELL FED COM #122H

NINA CORTELL  
FED COM #124H  
NINA CORTELL  
FED COM #134H  
NINA CORTELL  
FED COM #204H

NINA CORTELL FED COM #203H  
NINA CORTELL FED #133H  
NINA CORTELL FED #123H

**ROAD EASEMENT**

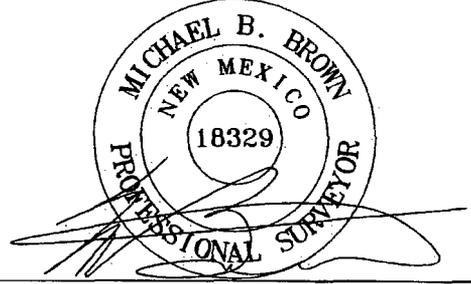
Being an existing road easement being 30 feet in width, 15 feet left and right of the above platted centerline total line footage containing 6001.86 feet or 363.75 rods, containing 4.13 acres more or less and being allocated by forties as follows.

- NW/4 SW/4 - 1681.49 feet or 101.91 rods, containing 1.16 acres
- NE/4 SW/4 - 1501.37 feet or 90.99 rods, containing 1.03 acres
- SW/4 SW/4 - 525.34 feet or 31.84 rods, containing 0.36 acres
- SE/4 SW/4 - 2293.66 feet or 139.01 rods, containing 1.58 acres



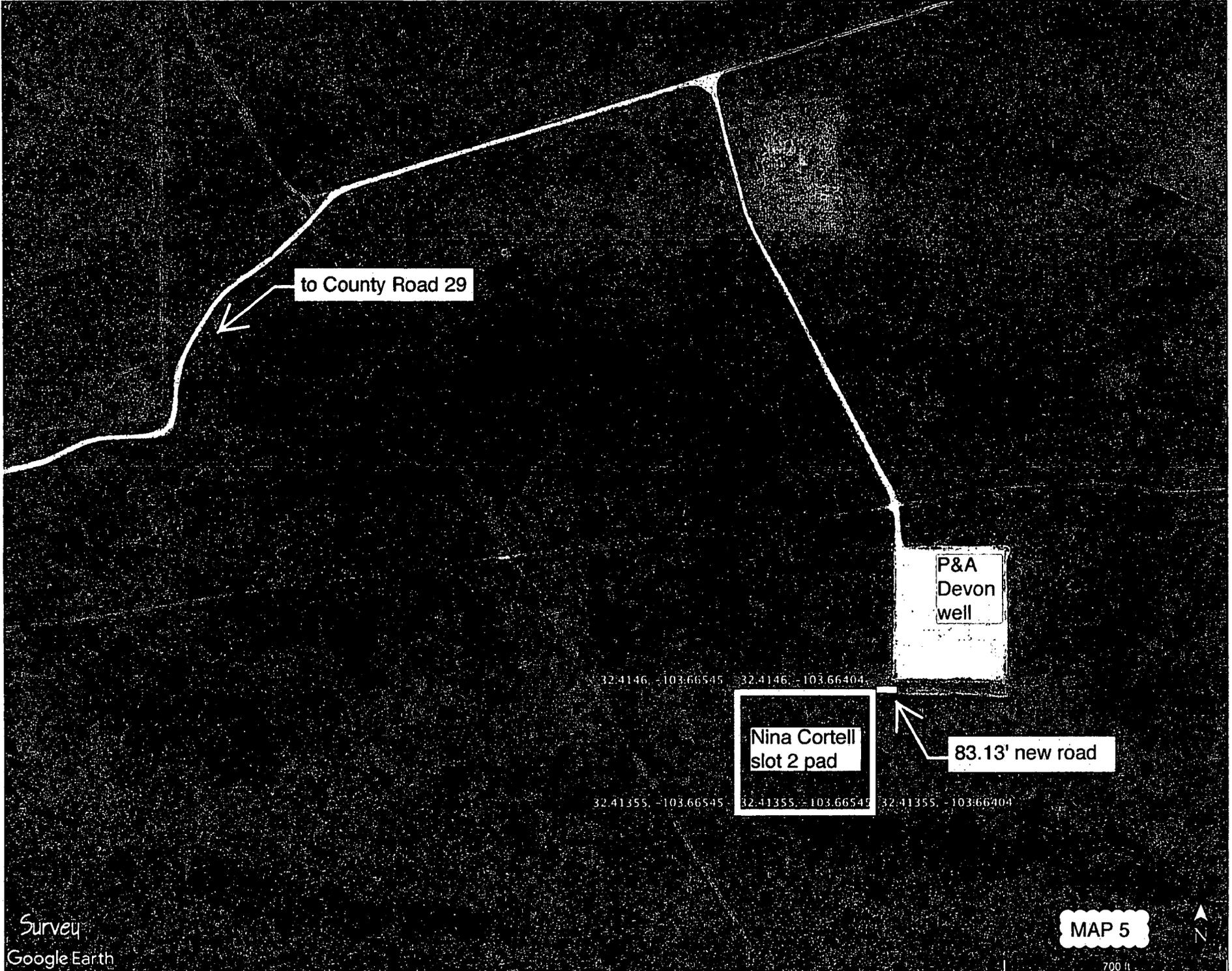
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Michael Blake Brown, P. S. No. 18329  
JUNE 9, 2017

NINA CORTELL FED ROAD EASEMENT	REVISION:		NOTES:
	INT	DATE	
DATE: 06/09/17			<p>1. ORIGINAL DOCUMENT SIZE: 8.5' X 11'</p> <p>2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983</p> <p>3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.</p> <p>4. B.O.L./P.O.B. = BEGINNING OF LINE/ POINT OF BEGINNING</p> <p>5. E.O.L./P.O.E. = END OF LINE/ POINT OF EXIT</p> <p>6. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.</p>
FILE: P:\NINA CORTELL FED ROAD EASEMENT SEC 3 STATE			
DRAWN BY: GJU			
SHEET: 1 OF 1			



to County Road 29

P&A  
Devon  
well

Nina Cortell  
slot 2 pad

83.13' new road

32.4146, -103.66545 32.4146, -103.66404

32.41355, -103.66545 32.41355, -103.66404



SCALE: 1" = 1000'

SECTION 3, TOWNSHIP 22-S, RANGE 32-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

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- NINA CORTELL FED COM #124H
- NINA CORTELL FED COM #134H
- NINA CORTELL FED COM #204H
- NINA CORTELL FED COM #203H
- NINA CORTELL FED #133H
- NINA CORTELL FED #123H

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NINA CORTELL FED COM #202H  
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NINA CORTELL FED COM #122H

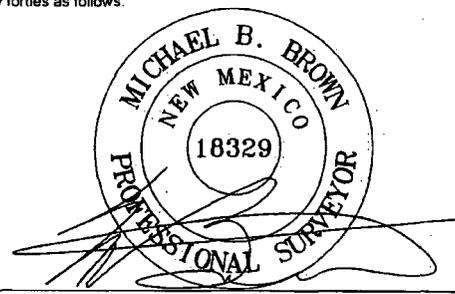
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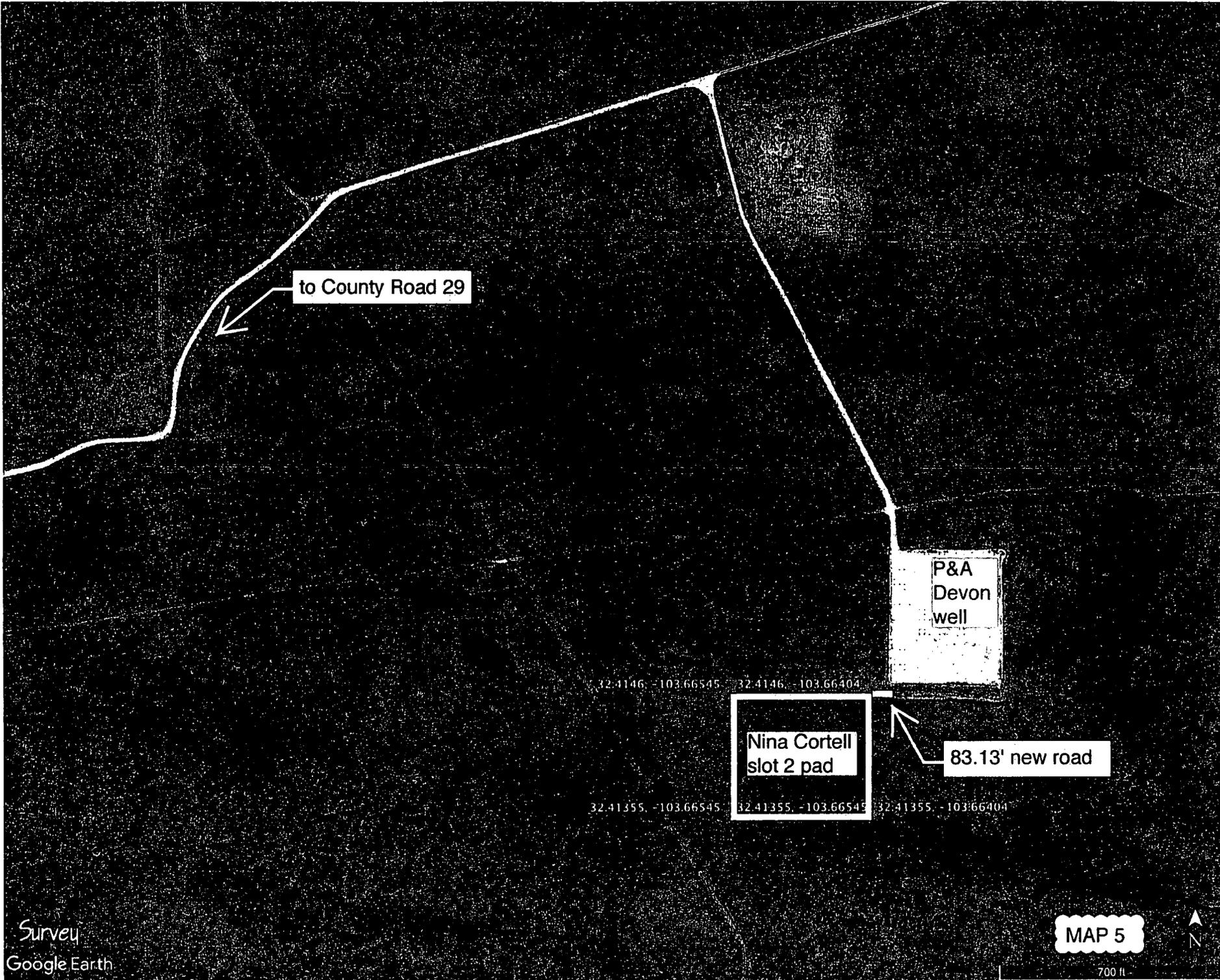
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WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329  
JUNE 9, 2017

NINA CORTELL FED ROAD EASEMENT	REVISION:	
	INT	DATE
DATE: 06/09/17		
FILE: P:\NINA CORTELL FED ROAD EASEMENT SEC 3 STATE		
DRAWN BY: GJU		
SHEET: 1 OF 1		

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to County Road 29

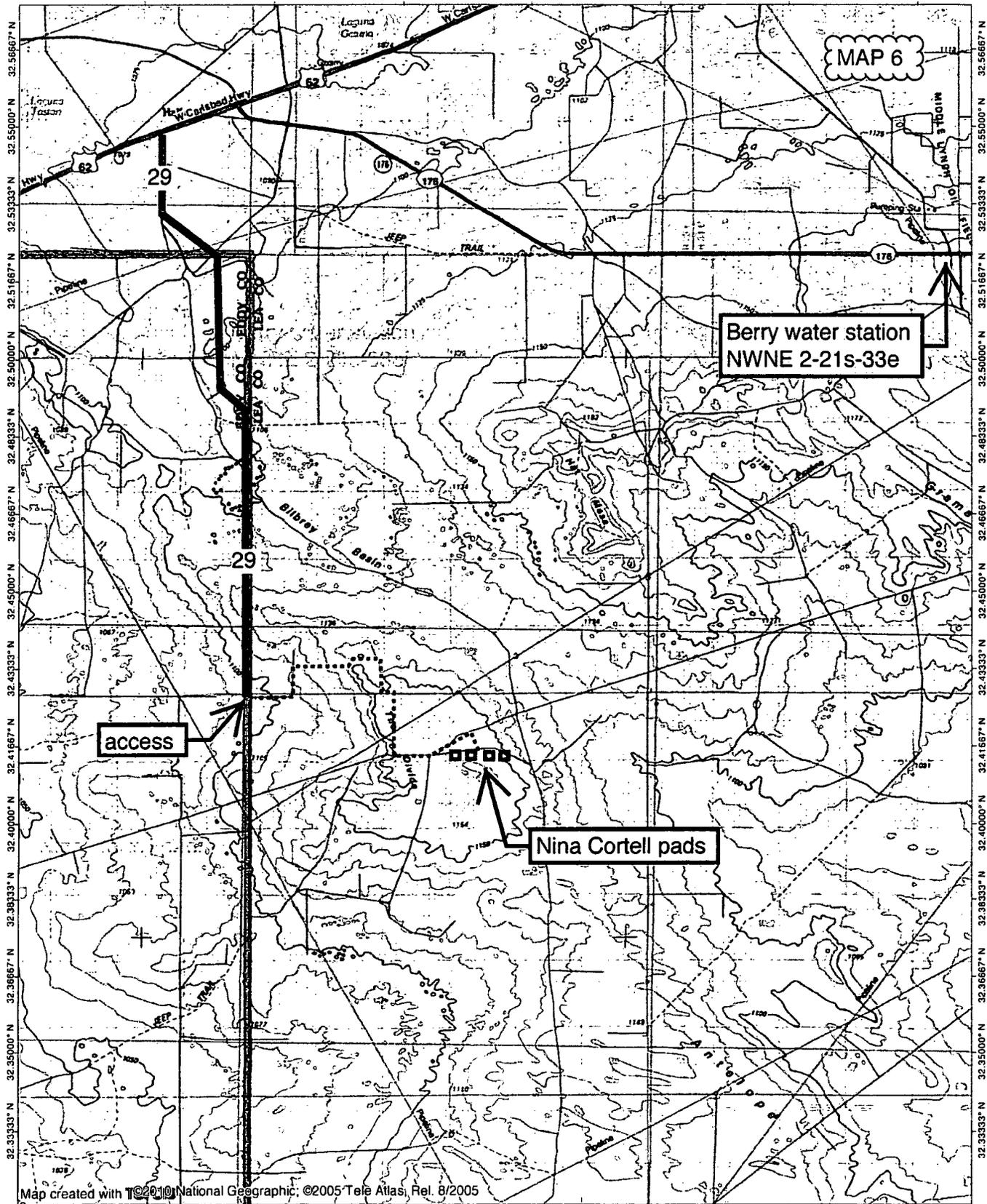
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well

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slot 2 pad

83.13' new road

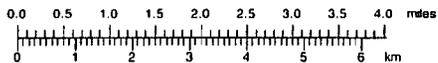


103.75000° W 103.71667° W 103.68333° W 103.65000° W 103.61667° W 103.58333° W WGS84 103.55000° W



Map created with T©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005

103.75000° W 103.71667° W 103.68333° W 103.65000° W 103.61667° W 103.58333° W WGS84 103.55000° W



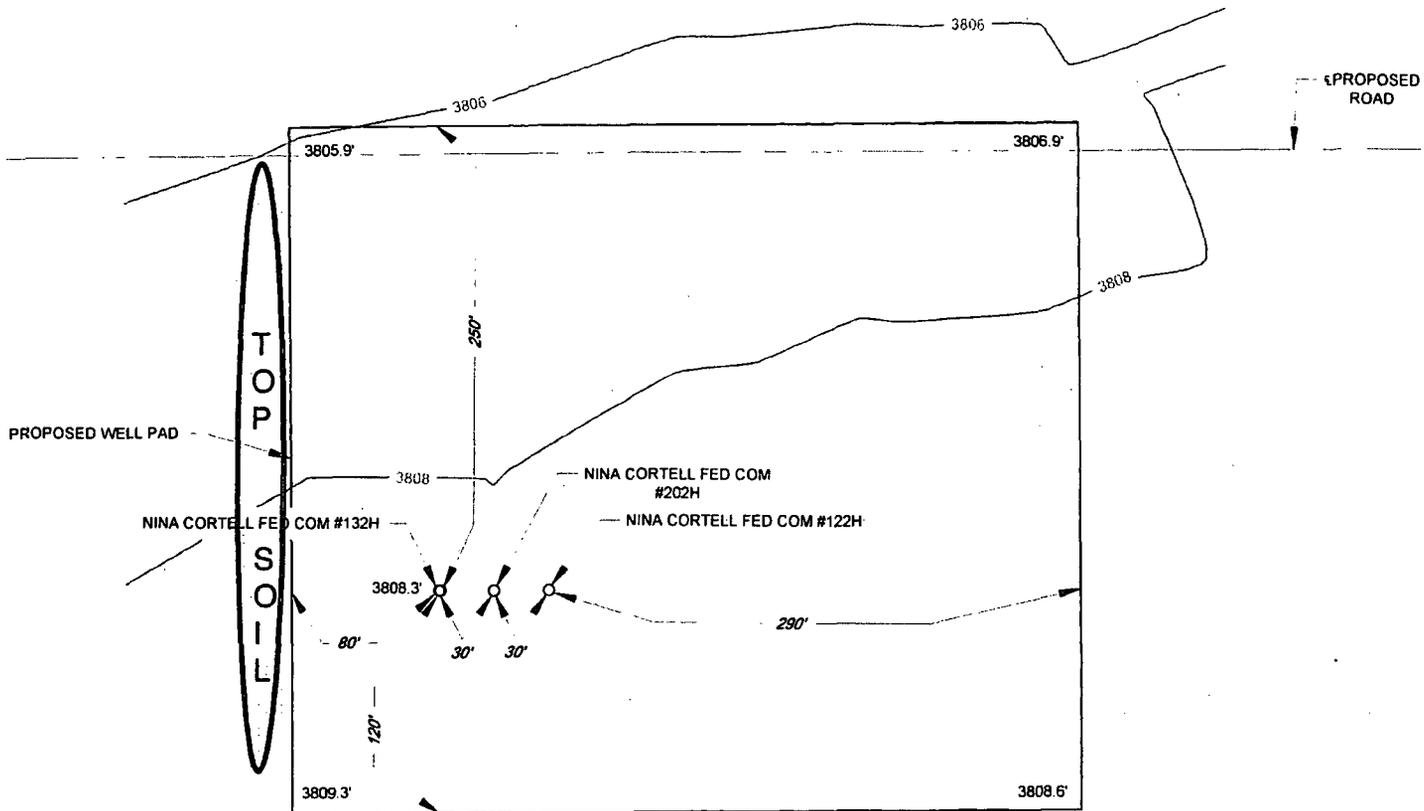
TN MN



MAP 7

SECTION 3, TOWNSHIP 22-S, RANGE 32-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

DETAIL VIEW  
SCALE: 1" = 100'



SECTION LINE



SCALE: 1" = 100'  
0' 50' 100'

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THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

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ORIGINAL DOCUMENT SIZE: 8.5" X 11"

SURVEY\MATADOR\_RESOURCES\WINA\_CORTELL\_FED\_COM\_132H\FINAL\_PRODUCTS\LO\_NINA\_CORTELL\_FED\_COM\_132H\_REV2.DWG 8/8/2017 4:26:53 PM ehornbeck

caliche source  
E2NE4 Sec. 3



32.4146, -103.66404  
 32.4146, -103.66545  
 slot 2  
 32.41355, -103.66545  
 32.41355, -103.66545 32.41355, -103.66104

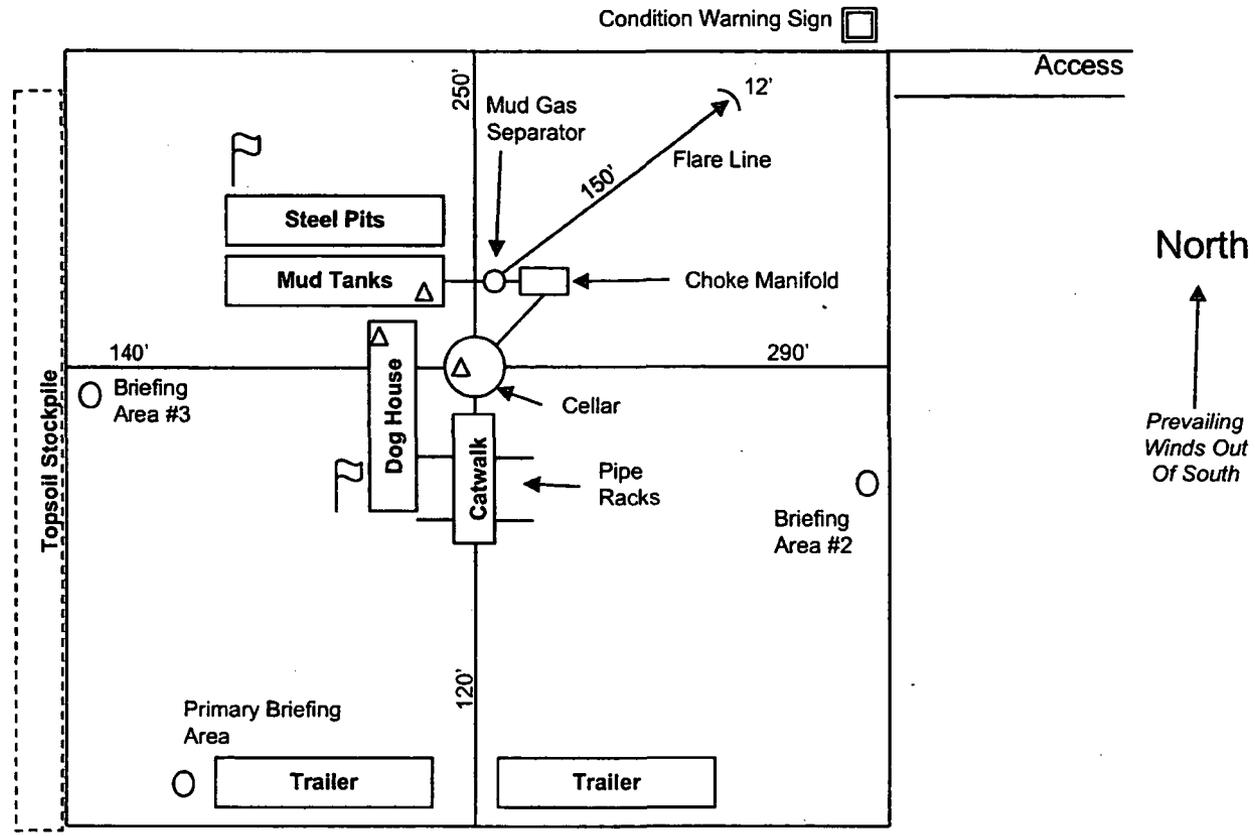




# Rig Diagram

Nina Cortell Fed Com 122H  
 SHL 150' FSL & 1906' FWL  
 3-22S-32E Lea County, NM  
 (not to scale)

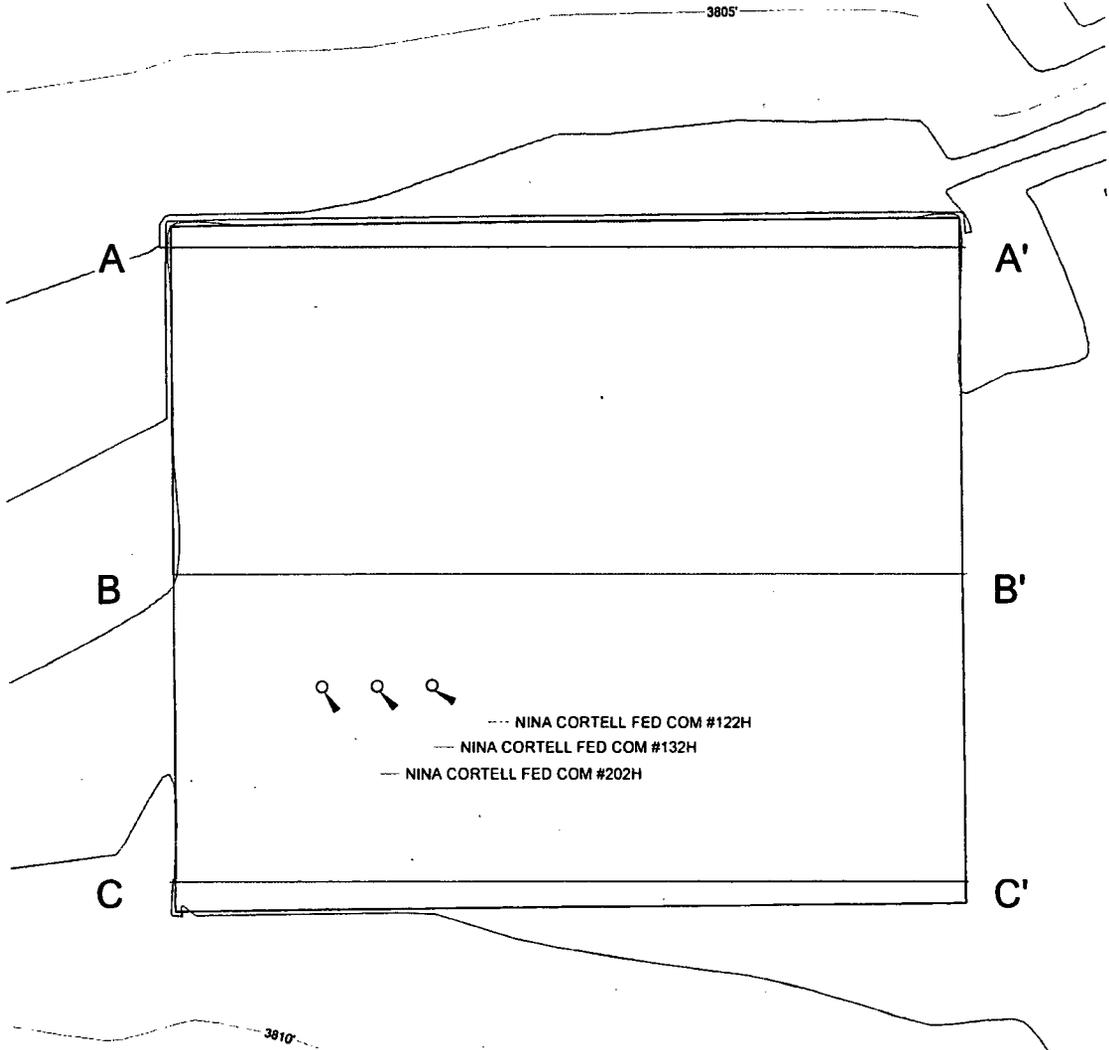
-  Wind Direction Indicator
-  H2S Monitors
-  Briefing Areas



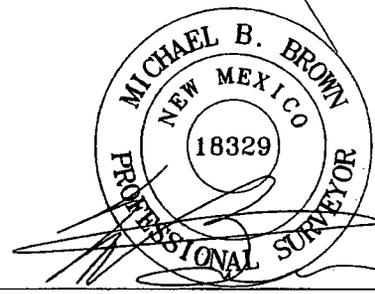
SCALE: 1" = 100'  
 0' 50' 100'

SECTION 3, TOWNSHIP 22-S, RANGE 32-E, N.M.P.M.  
 LEA COUNTY, NEW MEXICO

MAP 10



--- NINA CORTELL FED COM #122H  
 --- NINA CORTELL FED COM #132H  
 --- NINA CORTELL FED COM #202H



Michael Blake Brown, P.S. No. 18329  
 MAY 01, 2017  
 Field note description of even date accompanies this plat.



**TOPOGRAPHIC**  
 LOYALTY INNOVATION LEGACY  
 1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140  
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548  
 TEXAS FIRM REGISTRATION NO. 10042504  
 WWW.TOPOGRAPHIC.COM

NINA CORTELL FED COM 202H SURFACE PAD SITE PROFILE	REVISION:	
	GLH	05/01/17
DATE: 04/18/17		
FILE: CD:\NINA CORTELL FED COM 202H SURFACE PAD SITE REV1		
DRAWN BY: GJU		
SHEET: 1 OF 2		

NOTES:  
 1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"  
 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983.  
 3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.



**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:

### **Section 3 - Unlined Pits**

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:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

### **Section 4 - Injection**

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

**Injection 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:**



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

**Bond Information**

Federal/Indian APD: FED

BLM Bond number: NMB001079

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

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:

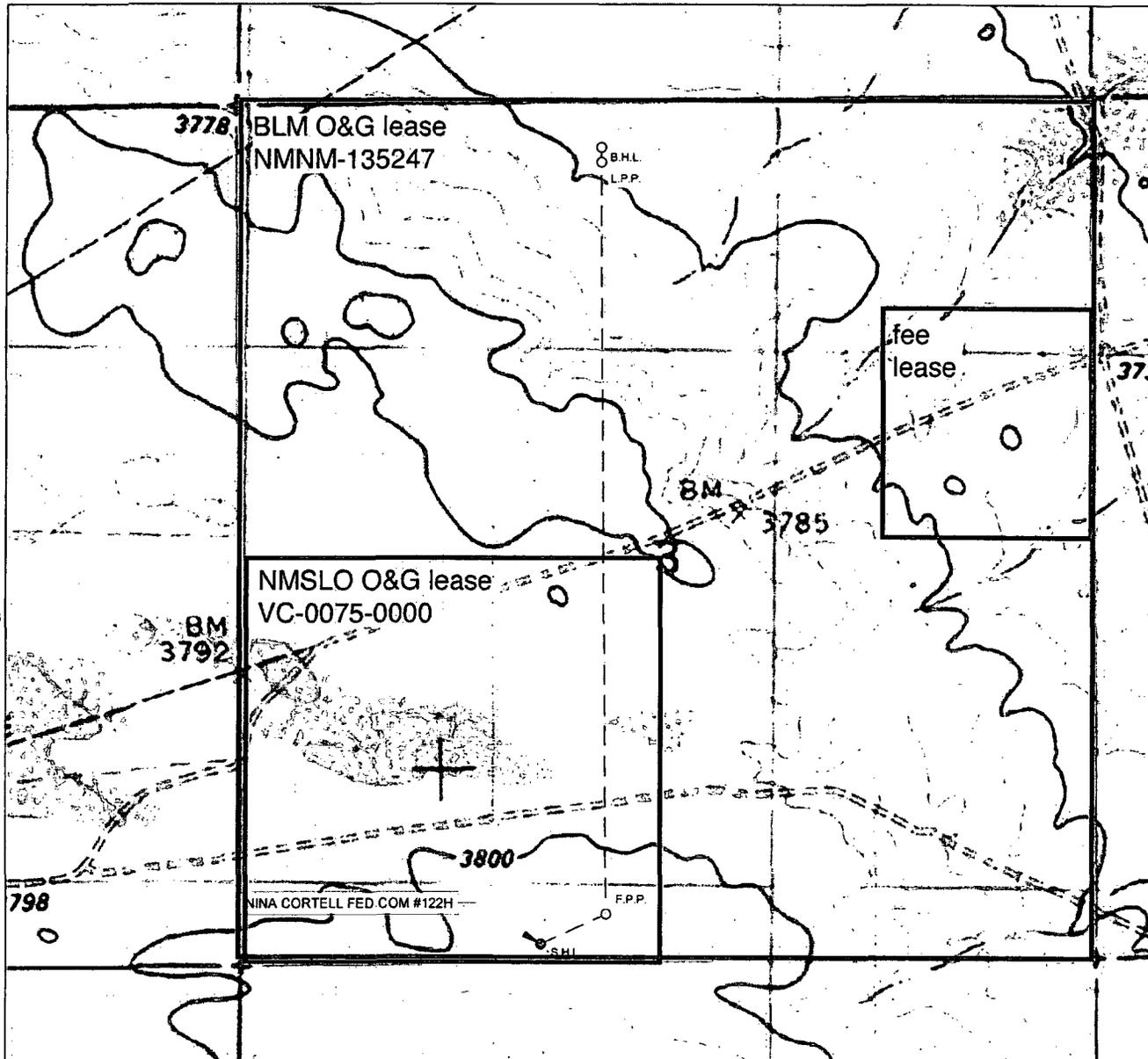
Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

60

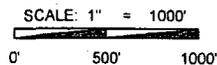
# LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: NINA CORTELL FED COM #122H

SECTION 3 TWP 22-S RGE 32-E SURVEY N.M.P.M.  
 COUNTY LEA STATE NM ELEVATION 3808'  
 DESCRIPTION 150' FSL & 1906' FWL

LATITUDE N 32.4138939 LONGITUDE W 103.6649635



THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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APD ID: 10400025576

Submission Date: 12/15/2017

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED COM

Well Number: 122H

Well Type: OIL WELL

Well Work Type: Drill



Show Final Text

**Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	--	3808	0	0	OTHER : Quaternary	USEABLE WATER	No
2	DEWEY LAKE	3418	390	390	SANDSTONE	USEABLE WATER	No
3	RUSTLER ANHYDRITE	2837	971	971		NONE	No
4	TOP SALT	2459	1349	1349		NONE	No
5	CASTILE	285	3523	3531	ANHYDRITE	NONE	No
6	BASE OF SALT	-1053	4861	4874		NONE	No
7	BELL CANYON	-1143	4951	4964	SANDSTONE	NATURAL GAS,CO2,OIL	No
8	CHERRY CANYON	-2147	5955	5972	SANDSTONE	NATURAL GAS,CO2,OIL	No
9	BRUSHY CANYON	-3111	6919	6936	SANDSTONE	NATURAL GAS,CO2,OIL	No
10	BONE SPRING	-5100	8908	8925	LIMESTONE	NATURAL GAS,CO2,OIL	No
11	BONE SPRING 1ST	-5729	9537	9654	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
12	BONE SPRING 1ST	-6087	9895	9912	SANDSTONE	NATURAL GAS,CO2,OIL	No
13	BONE SPRING 2ND	-6386	10194	10211	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
14	BONE SPRING 2ND	-6679	10487	10505	SANDSTONE	NATURAL GAS,CO2,OIL	Yes

**Section 2 - Blowout Prevention**

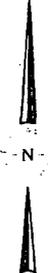
SCALE: 1" = 1000'

0' 500' 1000'

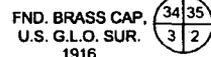


FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916

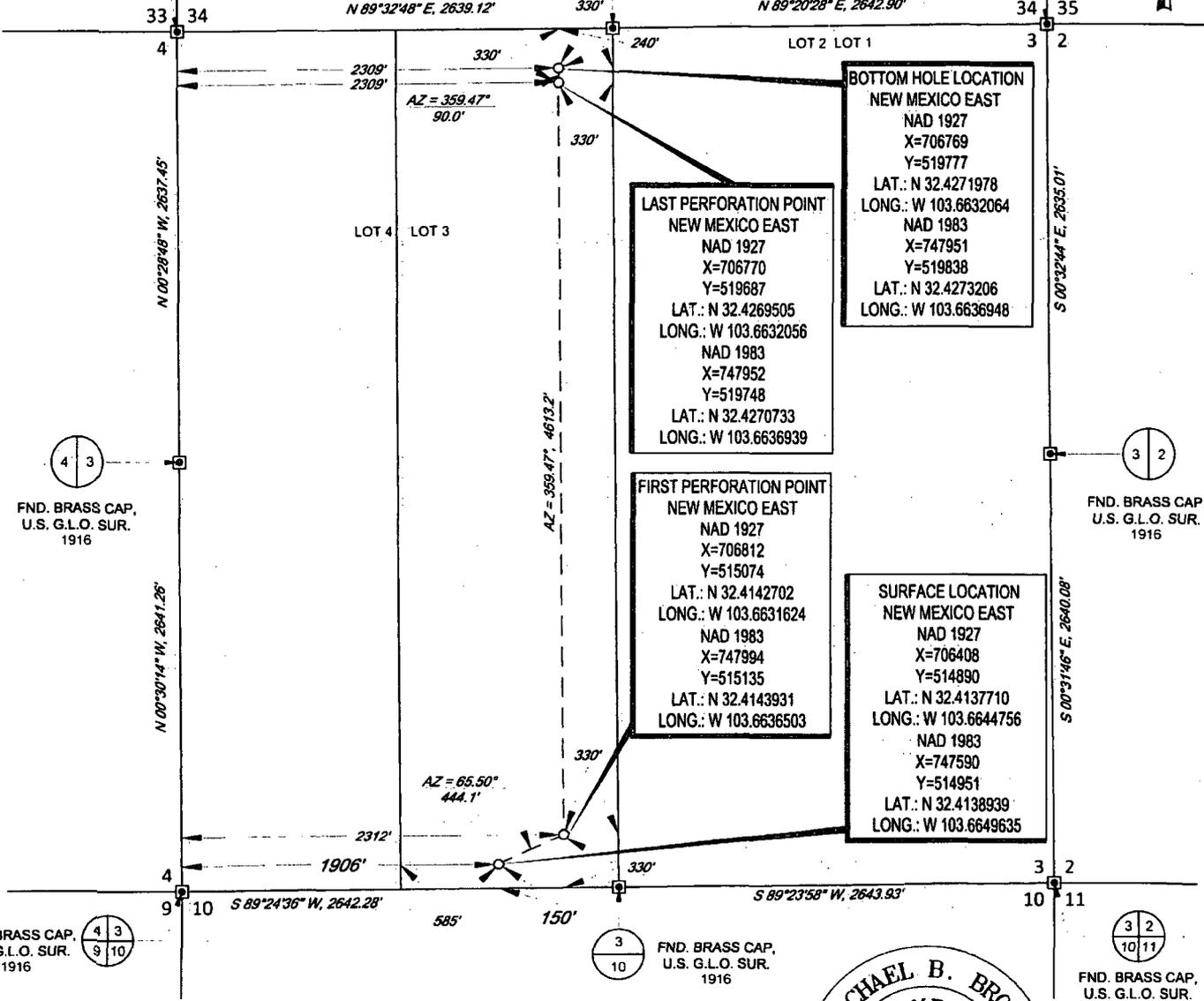
SECTION 3, TOWNSHIP 22-S, RANGE 32-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO



FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916



FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916



**LAST PERFORATION POINT**  
NEW MEXICO EAST  
NAD 1927  
X=706770  
Y=519687  
LAT.: N 32.4269505  
LONG.: W 103.6632056  
NAD 1983  
X=747952  
Y=519748  
LAT.: N 32.4270733  
LONG.: W 103.6636939

**BOTTOM HOLE LOCATION**  
NEW MEXICO EAST  
NAD 1927  
X=706769  
Y=519777  
LAT.: N 32.4271978  
LONG.: W 103.6632064  
NAD 1983  
X=747951  
Y=519838  
LAT.: N 32.4273206  
LONG.: W 103.6636948

**FIRST PERFORATION POINT**  
NEW MEXICO EAST  
NAD 1927  
X=706812  
Y=515074  
LAT.: N 32.4142702  
LONG.: W 103.6631624  
NAD 1983  
X=747994  
Y=515135  
LAT.: N 32.4143931  
LONG.: W 103.6636503

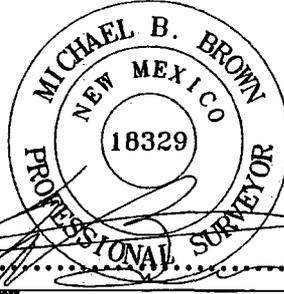
**SURFACE LOCATION**  
NEW MEXICO EAST  
NAD 1927  
X=706408  
Y=514890  
LAT.: N 32.4137710  
LONG.: W 103.6644756  
NAD 1983  
X=747590  
Y=514951  
LAT.: N 32.4138939  
LONG.: W 103.6649635

FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916

FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916

FND. BRASS CAP.  
U.S. G.L.O. SUR.  
1916

LEASE NAME & WELL NO.: NINA CORTELL FED COM #122H  
SECTION 3 TWP 22-S RGE 32-E SURVEY N.M.P.M.  
COUNTY LEA STATE NM  
DESCRIPTION 150' FSL & 1906' FWL  
DISTANCE & DIRECTION



Michael Blake Brown, P.S. No. 18329  
AUGUST 8, 2017

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AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



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