(March 2012) Hobbs		ABB N		FORM A OMB No. Expires Oct	APPROVED Gulk 1004-0137 Gulk sober 31, 2014 Gulk
UNITED STATES DEPARTMENT OF THE BUREALLOF LAND MAN	INTERIOR	HO, IN S.	ENVE	5. Lease Serial No. NMNM135247	
APPLICATION FOR PERMIT TO	DRILL OF		y	6. If Indian, Allotee o	r Tribe Name
Ia. Type of work: IDRILL REENT	ER	¥		7 If Unit or CA Agreen	nent, Name and No.
lb. Type of Well: Oil Well Gas Well Other	Sir Sir	igle Zone 🔲 Multip	ole Zone	8. Lease Name and W NINA CORTELL FEI	ell No. (32084) D 204H
2. Name of Operator MATADOR PRODUCTION COMPANY	(228	937)		9. API Well No. 	com 9/25
3a. Address 5400 LBJ Freeway, Suite 1500 Dallas TX 7524	3b. Phone No. (972)371-5	(include area code) 200		10. Field and Pool, or Ex BILBREY BASIN / B	ploratory 98
4. Location of Well (Report location clearly and in accordance with an	ty State requirem	ents.*)		11. Sec., T. R. M. or Blk	and Survey or Area
At surface SWSE / 150 FSL / 1446 FEL / LAT 32.41391 At proposed prod. zone I OT 1 / 240 FNL / 330 FEL / LAT 3	58 / LUNG - 32 4273551 /	103.0580985	94	SEC 3 / T22S / R32	E / NMP
 14. Distance in miles and direction from nearest town or post office* 27 miles 	52.42155517			12. County or Parish LEA	13. State NM
15. Distance from proposed* location to nearest 150 feet property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of a 439.68	cres in lease	17. Spacin 319.84	g Unit dedicated to this we	11
 Distance from proposed location* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 	19. Proposed 12099 feet	Depth / 16949 feet	20. BLM/I FED: N	BIA Bond No. on file MB001079	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3790 feet	22 Approxir 02/01/201	nate date work will star 8	rt*	23. Estimated duration 90 days	
	24. Attac	hments			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	 Bond to cover the litem 20 above). Operator certifice Such other site BLM. 	traction to info specific info	is form: ns unless covered by an e: ormation and/or plans as n	xisting bond on file (see nay be required by the
25. Signature	Name	(Printed/Typed)	66 9120	1	Date 12/10/2017
(Electronic Submission)	Dilai	wood / Fil. (505)4	00-0120		12/19/2017
President Approved by (Signature) (Electronic Submission)	Name	(Printed/Typed)	234-5050	1	Date 06/06/2018
Title Supervisor Multiple Resources	Office	SBAD		·	
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached.	ls legal or equi	able title to those righ	ts in the sub	ject lease which would en	title the applicant to
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	rime for any po to any matter w	erson knowingly and within its jurisdiction.	villfully to m	nake to any department or	agency of the United
(Continued on page 2) GCP Rec 06/20/18			03/6	*(Instru	actions on page 2)

Approval Date: 06/06/2018

Port,

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.

(Continued on page 3)

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

SHL: SWSE / 150 FSL / 1446 FEL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4139158 / LONG: -103.6586985 (TVD: 0 feet, MD: 0 feet)
 PPP: NENE / 1320 FNL / 326 FEL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.427355 / LONG: -103.65513 (TVD: 12099 feet, MD: 15879 feet)
 PPP: SENE / 2640 FSL / 326 FEL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.420782 / LONG: -103.655106 (TVD: 12099 feet, MD: 14559 feet)
 PPP: SWSE / 150 FSL / 1446 FEL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4139158 / LONG: -103.655106 (TVD: 0 feet, MD: 0 feet)
 BHL: LOT 1 / 240 FNL / 330 FEL / TWSP: 22S / RANGE: 32E / SECTION: 3 / LAT: 32.4273551 / LONG: -103.6551294 (TVD: 12099 feet, MD: 16949 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.

#1

PPP

Leg

#1

150

FSL

144

6

FEL 22S 32E 3

Aliquot

SWSE 58

32.41391 -

Well Number: 204H

Dese	cribe (other	miner	als:														
ls th	e proj	posed	well	in a H	elium	ı prod	luctio	n area?	N Use I	Existing W	/ell Pa	d? NO	N	ew	surface	distur	bance	?
Туре	e of W	ell Pa	d: MU	JLTIPI	E WE	ELL			Multi	ple Weil P	ad Na	me: SL	OT N	uml	ber: 4			
Well	Class	s: HOI	RIZON	TAL				•	Num	ber of Leg	s: 1							
Well	Work	Туре	: Drill															
Well	Туре	OIL	WELL															
Desc	cribe \	Neli T	ype:															
Well	sub-1	Гуре:	INFIL	L														
Desc	cribe s	sub-ty	/pe:															
Dista	ance t	o tow	n: 2 7	Miles			Dis	tance to	o nearest v	well: 30 F1	Г	Dist	tance t	o le	ease line	: 150	FT	
Rese	ervoir	well s	spacir	ng ass	signe	d acre	es Me	asurem	ent: 319.8	4 Acres								
Well	plat:	N	C_204	H_Pla	it_201	71219	90940	11.pdf										
Well	work	start	Date:	02/01	/2018	l	•		Durat	tion: 90 D/	AYS							
r																		
	Sec	tion	3 - 1	Nell	Loca	atior	n Tal	ble										
Surv	ey Ty	pe: Rl	ECTA	NGUL	AR													
Desc	ribe S	Survey	у Тур	e:														
Datu	m: NA	D83							Vertic	al Datum		88						
Surv	ey nu	mber:	: 1832	9														
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	6-Foot	S Indicator	V-Foot	V Indicator	ds/	ange	ection	quot/Lot/Tra	titude	ngitude	ounty	ate	eridian	tse Type	ase Number	evation		p
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Leg #1	150	FSL	144 6	FEL	225	32E	3	SWSE	32.41391 58	- 103.6586 985	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 135247	379 0	0	0
KOP Leg #1	150	FSL	144 6	FEL	225	32E	3	Aliquot SWSE	32.41391 58	- 103.6586 985	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 135247	- 772 5	116 35	115 15

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NMNM 379 0

135247 0

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

Application Data Report

	ID-	10400025682
AFU.	ID:	10400023002

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED

Well Type: OIL WELL

Well Number: 204H

Well Work Type: Drill

Submission Date: 12/19/2017

•

Zip: 75240

Show Final Text

Section 1 - General APD ID: Submission Date: 12/19/2017 10400025682 **Tie to previous NOS?** 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 Allotted? **Reservation:** Surface access agreement in place? 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

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	Well Number: 204H	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

FAFMSS

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

APD ID: 10400025682

682 Submission Date: 12/19/2017

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED

Well Number: 204H

Well Work Type: Drill

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06/15/2018

Drilling Plan Data Report

Show Final Text

Well Type: OIL WELL

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID I	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1		3789	Ö	Ö	OTHER : Quaternary	USEABLE WATER	No
2	DEWEY LAKE	3381	408	408	SANDSTONE	USEABLE WATER	No
3	RUSTLER ANHYDRITE	2771	1018	1018		NONE	No
4	SALADO	2404	1385	1385	SALT	NONE	No
5	CASTILE	296	3493	3500	ANHYDRITE	NONE	No
6	BASE OF SALT	-1082	4871	4885		NONE	No
7	BELL CANYON	-1151	4940	4952	SANDSTONE	NATURAL GAS,CO2,OIL	No
8	CHERRY CANYON	-2125	5914	5938	SANDSTONE	NATURAL GAS,CO2,OIL	No
9	BRUSHY CANYON	-3089	6878	6943	SANDSTONE	NATURAL GAS,CO2,OIL	No
10	BONE SPRING	-5087	8876	8995	LIMESTONE	NATURAL GAS,CO2,OIL	No
11	BONE SPRING 1ST	-5807	9596	9718	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
12	BONE SPRING 1ST	-6182	9971	10090	SANDSTONE	NATURAL GAS,CO2,OIL	No
13	BONE SPRING 2ND	-6445	10234	10353	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
14	BONE SPRING 2ND	-6711	10500	10619	SANDSTONE	NATURAL GAS,CO2,OIL	No
15	BONE SPRING 3RD	-7252	11041	11160	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
16	BONE SPRING 3RD	-7803	11592	11771	SANDSTONE	NATURAL GAS,CO2,OIL	No
17	WOLFCAMP	-8212	12001	12214	OTHER : A Carbonate	NATURAL GAS,CO2,OIL	Yes

Well Name: NINA CORTELL FED

Well Number: 204H

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 12000

Egylpment & 12,000° 10,000-patt000° stack considing of Summarath Spigen any, 1 kind repr. and 1 smaller provedbr he nactifician contact caring to NS. See all ashed BOP, didlar memilikk, gaiter hers, and speed beed discreme. An hearing the descripting with Sustame Calar & regularments for the BCP stack sustains a film will by placent. Ast will be busicilist exampled.

Requesting Variance? YES

An Entransministration requires an advince for dail take mellowing ensor the United stories the USP and chefts mentions. Equilation for an advint the positive methods of the positive of a source of the first of the source of t

Choke Diagram Attachment:

NC_204H_Choke_20180514162012.pdf

BOP Diagram Attachment:

NC_204_BOP_20171219095442.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	3790		1200	J-55	54.5	OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5000	0	4987	3790		5000	J-55	40	OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
3	INTERMED IATE	8.75	7.0	NEW	API	N	0	12435	0	12080	3790		12435	P- 110	29	OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
4	PRODUCTI ON	6.12 5	4.5	NEW	API	N	0	16949	0	12099	3790		16949	P- 110	13.5	OTHER - BTC/TXP	1.12 5	1.12 5	DRY	1.8	DRY	1.8

Casing Attachments

Casing ID: 1	String Type:SURFACE
Inspection Document:	

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

NC_204H_Casing_Design_Assumptions_20171219095527.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

NC_204H_Casing_Design_Assumptions_20171219095554.pdf

Casing ID: 3 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

NC_204H_Casing_Design_Assumptions_20171219095817.pdf

Casing Attachments

Casing ID: 4

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

NC_204H_Casing_Design_Assumptions_20171219095706.pdf

Section	4 - C	emen	t								
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	240	1.82	12.8	436	100	Class C	Bentonite + 2% CaCl2 + 3% NaCl + LCM
SURFACE	Tail		0	1200	839	1.38	14.8	1157	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		0	5000	909	2.13	12.6	1936	100	Class C	Bentonite + 1% CaCl2 + 8% NaCl + LCM
INTERMEDIATE	Tail		0	5000	482	1.38	14.8	665	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		0	1243 5	570	2.36	11.5	1345	35	ТХІ	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Tail		0	1243 5	331	1.38	13.2	456	35	TXI	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Lead		0	1694 9	601	1.17	15.8	703	25	TXI	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Tail		0	1694 9	601	1.17	15.8	703	25	ТХІ	Fluid Loss + Dispersant + Retarder + LCM

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: An electronic Pason mud monitoring system complying with Onshore Order 1 will be used.

Describe the mud monitoring system utilized: 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.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1243 5	1694 9	OIL-BASED MUD	12.5	12.5							
0	1200	OTHER : Fresh water spud	8.3	8.3							
1200	5000	OTHER : Brine water	10	10							
5000	1243 5	OTHER : Fresh water & cut brine	9	9							

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: 8000

Anticipated Surface Pressure: 5338.21

Anticipated Bottom Hole Temperature(F): 170

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

NC_204H_H2S_Plan_20171219100318.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

NC_204H_Horizontal_Drill_Plan_rdc_20171219133530.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

NC_204H_Speedhead_Specs_20171219100345.pdf NC_204H_10M_Well_Control_Plan_20180514160909.pdf NC_204H_General_Drill_Plan_20180514162139.pdf

Other Variance attachment:





(Shaffer Spherical)

Clone Annular



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E

PATTERSON-UTI # PS2-628 STYLE: New Shaffer Spherical BORE 13 5/8" PRESSURE 5,000 HEIGHT: 48 ½" WEIGHT: 13,800 lbs

297



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

Length <u>40"</u> Outlets <u>4" 10M</u> DSA <u>4" 10M × 2" 10M</u>



WING VALVES

2" Check Valve

2" Manual Valve

2" Manual Valve

4" Manual Valve

4" Hydraulic Valve



December 8, 2014



N Sr	lidwest Hose Specialty, Inc.
Certifica	te of Conformity
Customer: PATTERSON B&E	Customer P.O.# 260471
Sales Order # 236404	Date Assembled: 12/8/2014
Spi	ecifications
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 suppl to the requirements of the purchase order and c Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City. OK 73129	ied for the referenced purchase order to be true according urrent industry standards.
Comments:	



			·
	Midw	est Hose	
	& Spec	cialty, inc.	
Inte		utic Test Contificato	
	rnai Hyarosta		
General Intori	mation	Mose Specific	ations
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative		Certification	API 7K
Date Assembled	12/8/2014	Hose Grade	MUD
Location Assembled	ОКС	Hose Working Pressure	10000
Sales Order #	236404	Hose Lot # and Date Code	10490-01/13
Customer Purchase Order #	260471	Hose I.D. (Inches)	3"
Assembly Serial # (Pick Ticket #)	287918-1	Hose O.D. (Inches)	5.30"
Hose Assembly Length	20'	Armor (yes/no)	YES
	Fit	tings	
End A		End B	
Stem (Port and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
	A141420	Stem (Heat #)	A141420
Stem (Heot #)	M141420	n de la competencia d	
Stem (Heat #) Ferrule (Part and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
Stem (Heat #) Ferrule (Part and Revision #) Ferrule (Heat #)	RF3.0 37DA5631	Ferrule (Part and Revision #) Ferrule (Heat #)	RF3.0 37DA5631
Stem (Heat #) Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #)	RF3.0 37DA5631 4 1/16 10K	Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #)	RF3.0 37DA5631 4 1/16 10K
Stem (Heat #) Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #)	RF3.0 37DA5631 4 1/16 10K V3579	Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #)	RF3.0 37DA5631 4 1/16 10K V3579
Stem (Heat #) Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #) Dies Used	RF3.0 37DA5631 4 1/16 10K V3579 5.3	Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #) 7 Dies Used	RF3.0 37DA5631 4 1/16 10K V3579 5.33
Stem (Heot #) Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #) Dies Used	RF3.0 37DA5631 4 1/16 10K V3579 5.3 Hydrostatic Te	Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #) 7 Dies Used st Requirements	RF3.0 37DA5631 4 1/16 10K V3579 5.3
Stem (Heat #) Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #) Dies Used Test Pressure (psi)	RF3.0 37DA5631 4 1/16 10K V3579 5.3 Hydrostatic Te 15,000	Ferrule (Part and Revision #) Ferrule (Heat #) Connection (Part #) Connection (Heat #) Dies Used St Requirements Hose assembly was tested to	RF3.0 37DA5631 4 1/16 10K V3579 5.3 with ambient water

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<u>,</u>...

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	Mid	west Hose	
	& Sp	ecialty, Inc.	
	Certificate	of Conformity	
Customer: PATTERSON B8	έE	Customer P.O.# 260471	
Sales Order # 236404		Date Assembled: 12/8/2014	
	Spec	ifications	
Hose Assembly Type:	Choke & Kill		
Assembly Serial #	287918-1	Hose Lot # and Date Code	10490-01/13
Hose Working Pressure (psi)	10000	Test Pressure (psi)	15000
We hereby certify that the above to the requirements of the purcha Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129 Comments:	material supplied ase order and curr	for the referenced purchase order rent industry standards.	to be true according
	, 	Date	Λ

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MHSI-009 Rev.0.0 Proprietary



Midw & Spec rnal Hydrosta mation IPATTERSON B&E	est Hose cialty, Inc. Ttic Test Certificate Hose Specific	
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mation PATTERSON B&E	Hose Specifi	
PATTERSON B&E		rations
	Hose Assembly Type	Choke & Kill
	Certification	API 7K
12/8/2014	Hose Grade	MUD
ОКС	Hose Working Pressure	10000
236404	Hose Lot # and Date Code	10490-01/13
260471	Hose I.D. (Inches)	3"
287918-3	Hose O.D. (Inches)	5.23"
70'	Armor (yes/no)	YES
Fit	tings	
	End B	
R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
A141420	Stem (Heat #)	A141420
RF3.0	Ferrule (Part and Revision #)	952.0
	, , ,	INL210
37DA5631	Ferrule (Heat #)	37DA5631
37DA5631 4 1/16 10K	Ferrule (Heot #) Connection (Part #)	37DA5631 4 1/16 10K
37DA5631 4 1/16 10K	Ferrule (Heat #) Connection (Part #) Connection (Heat #)	37DA5631 4 1/16 10K
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37DA5631 4 1/16 10K 5.3 Hydrostatic Te	Ferrule (Heat #) Connection (Part #) Connection (Heat #) 7 Dies Used St Requirements	37DA5631 4 1/16 10K 5.3
37DA5631 4 1/16 10K 5.3 Hydrostatic Te 15,000	Ferrule (Heat #) Connection (Part #) Connection (Heat #) 7 Dies Used St Requirements Hose assembly was tested to	Nr3.0 37DA5631 4 1/16 10K 5.3 with ambient water
	12/8/2014 OKC 236404 260471 287918-3 70' Fit R3.0X64WB A141420 RF3.0	12/8/2014 Hose Grade OKC Hose Working Pressure 236404 Hose Lot # and Date Code 260471 Hose I.D. (Inches) 287918-3 Hose O.D. (Inches) 70' Armor (yes/no) End B R3.0X64WB Stem (Part and Revision #) A141420 Stem (Heat #) PE2.0 Farrula (Part and Revision #)

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Mi & S	idwest Hose Specialty, Inc.
Certificat	e of Conformity
Customer: PATTERSON B&E	Customer P.O.# 260471
Sales Order # 236404	Date Assembled: 12/8/2014
Spe	cifications
Hose Assembly Type: Choke & Kill	
Assembly Serial # 287918-3	Hose Lot # and Date Code 10490-01/13
Hose Working Pressure (psi) 10000	Test Pressure (psi) 15000
We hereby certify that the above material supplic to the requirements of the purchase order and cu Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129	ed for the referenced purchase order to be true according prent industry standards.
We hereby certify that the above material supplie to the requirements of the purchase order and cu Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd Oklahoma City, OK 73129 Comments:	ed for the referenced purchase order to be true according prent industry standards.

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).

Intermediate #2 Casing

Collapse: DF_c=1.125

• Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).

• 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: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore 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 100 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.65 psi/ft). External force will be 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.
- 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 (0.47 psi/ft) which is a more conservative backup force than pore pressure.

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Tensile: DF_t=1.8

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

Production Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.65 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

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 (0.65 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 (0.65 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 (12.5 ppg).

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DFt=1.8

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

Intermediate #2 Casing

Collapse: DF_c=1.125

Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).

• 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: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore 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 100 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.65 psi/ft). External force will be 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.
- 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 (0.47 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).

Production Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.65 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

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 (0.65 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 (0.65 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: DFt=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (12.5 ppg).

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DFt=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (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
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 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: DFt=1.8

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

Intermediate #2 Casing

Collapse: DF_c=1.125

Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).

• 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: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud
 gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore
 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 100 bbl kick
 with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that
 (0.65 psi/ft). External force will be 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.
- 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 (0.47 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: DFt=1.8

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

Production Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud
 gradient in which the casing will be run above that (0.65 psi/ft) and an internal force equal to mud gradient
 of displacement fluid (0.43 psi/ft).

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 (0.65 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 (0.65 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: DFt=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (12.5 ppg).

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DF_c=1.125

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

Burst: DF_b=1.125

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

Tensile: DFt=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (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: DFt=1.8

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

Intermediate #2 Casing

Collapse: DF_c=1.125

Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).

H2S Rig Diagram









For the latest performance data, always visit our website: www.tenaris.com

December 31 2015



Connection: TenarisXP® BTC Casing/Tubing: CAS Coupling Option: REGULAR Size: 4.500 in. Wall: 0.290 in. Weight: 13.50 lbs/ft Grade: P110-ICY Min. Wall Thickness: 87.5 %

Nominal OD	4.500 in.	Nominal Weight	13.50 lbs/ft	Standard Drift Diameter	3 .795 in.
Nominal ID	3.920 in.	Wall Thickness	0.290 in.	Special Drift Diameter	N/A
Plain End Weight	13.05 lbs/ft				
Body Yield Strength	479 x 1000 lbs	Internal Yield	14100 psi	SMYS	125000 psi
Collapse	11620 psi				<u> </u>
		<u></u> PPU			
Connection OD	5.000 in.	Coupling Length	9.075 in.	Connection ID	3.908 in.
Critical Section Area	3.836 sq. in.	Threads per in.	5.00	Make-Up Loss	4.016 in,
Tension Efficiency	100 %	Joint Yield Strength	479 x 1000 lbs	Internal Pressure	14100 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	479 x 1000 lbs	Structural Bending ⁽²⁾	127 ° /100 f
External Pressure Capacity	11620 psi				
Minimum	6950 ft-lbs	Optimum	7720 ft-lbs	Maximum	8490 ft-lbs

Blanking Dimensions



Well Control Plan For 10M MASP Section of Wellbore

Component and Preventer Compatibility Table:

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

Component	OD	Preventer	RWP
Drill pipe	4"		
HWDP	4"	7	
Jars/Agitator	4.75-5"	Lower 3.5-5.5" VBR	1014
Drill collars and MWD tools	4.75-5.25"	Upper 3.5-5.5" VBR	TON
Mud Motor	4.75-5.25"		
Production casing	4.5-5.5"	7	
ALL	0-13.625"	Annular	5M
Open-hole	-	Blind Rams	10M

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

Well Control Procedures

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

General Procedure While Drilling

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

General Procedure While Tripping

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



Well Control Plan For 10M MASP Section of Wellbore

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

General Procedure While Running Casing

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

General Procedure with No Pipe In Hole

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

General Procedure While Pulling BHA through Stack

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

Well Control Plan For 10M MASP Section of Wellbore

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

Well Control Drills

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

Matador Production Company Nina Cortell Fed Com 204H SHL 150' FSL & 1446' FEL BHL 240' FNL & 330' FEL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	MD	Bearing
Quaternary	000′	000′	water
Dewey Lake sandstone	408'	408'	water
Rustler anhydrite	1018'	1018′	N/A
Salado salt	1385'	1385'	N/A
Castile anhydrite	3493'	3500'	N/A
Base salt	4871'	4885'	N/A
Bell Canyon sandstone	4940'	4952'	hydrocarbons
Cherry Canyon sandstone	5914'	5938'	hydrocarbons
Brushy Canyon sandstone	6878′	6943'	hydrocarbons
Bone Spring limestone	8876'	8995'	hydrocarbons
1 st Bone Spring carbonate	9596'	9718′	hydrocarbons
1 st Bone Spring sandstone	9971'	10090′	hydrocarbons
2 nd Bone Spring carbonate	10234'	10353'	hydrocarbons
2nd Bone Spring sandstone	10500′	10619'	hydrocarbons
3 rd Bone Spring carbonate	11041'	11160'	hydrocarbon
(КОР	11531'	11650'	hydrocarbons)
3 rd Bone Spring sandstone	11592′	11771′	hydrocarbon
Wolfcamp A carbonate	12001′	12214′	Hydrocarbons & goal
TD	12099'	16949'	hydrocarbons

2. NOTABLE ZONES

Wolfcamp is the goal. Hole will extend north of the last perforation point to allow for pump installation. All perforations will be \geq 330' from the dedication perimeter. Closest water well (C 03717) is 7094' west. Water bearing strata were found at 620' - 630' in the 650' deep well.

3. PRESSURE CONTROL

A 12,000' 10,000-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.

DRILL PLAN PAGE 2

Matador Production Company Nina Cortell Fed Com 204H SHL 150' FSL & 1446' FEL BHL 240' FNL & 330' FEL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed.

Testing Procedure

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

A third party company will test the BOPs.

After setting surface casing, and before drilling below the surface casing shoe, BOPE will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high. After setting 9-5/8" casing, pressure tests will be made to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high. After setting 7-5/8" x 7" Casing, pressure tests will be made to 250 psi high. Annular will tested to 250 psi low and 5000 psi high. Annular will be made to 250 psi low and 2500 psi high. After setting 7-5/8" x 7" Casing, pressure tests will be made to 250 psi low and 10,000 psi high. Annular will tested to 250 psi low and 5000 psi high.

Variance Request

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

Operator requests a variance to use a 5M Annular and test to 250 psi low and 5000 psi high. Matador is requesting a variance to use a speed head for setting the intermediate (9-5/8") casing. In the case of running a speed head with landing mandrel for 9-5/8" casing, BOP test pressures after setting surface casing will be 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high before drilling below the surface shoe. The BOPs will not be tested again until after setting 7-5/8" x 7" casing unless any flanges are separated. A diagram of the speed head is attached. Matador Production Company Nina Cortell Fed Com 204H SHL 150' FSL & 1446' FEL BHL 240' FNL & 330' FEL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

4. CASING & CEMENT

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

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
17.5"	0′ - 1200'	0′ - 1200'	13.375" surface	54.5	J-55	втс	1.125	1.125	1.8
12.25"	0′ - 5000'	0′ - 4988'	9.625" inter. 1	40	J-55	втс	1.125	1.125	1.8
8.75"	0' - 12435'	0′ – 12080′	7.0" inter. 2	29	P-110	втс	1.125	1.125	1.8
6.125″	0′ – 16949′	0′ – 12099'	4.5" product.	13.5	P-110	BTC/TXP	1.125	1.125	1.8

Name	Туре	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Lead	240	1.82	436	12.8	Class C + Bentonite + 2% CaCl ₂ + 3% NaCl + LCM
	Tail	839	1.38	1157	14.8	Class C + 5% NaCl + LCM
TOC = GL		1	00% Exces	SS	Centra	lizers per Onshore Order 2.III.B.1f
Intermediate 1	Lead	909	2.13	1936	12.6	Class C + Bentonite + 1% CaCl₂ + 8% NaCl + LCM
	Tail	482	1.38	665	14.8	Class C + 5% NaCl + LCM
TOC = GL		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt surface	
Intermediate	Lead	570	2.36	1345	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
Ζ	Tail	331	1.38	456	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM
TOC = 400	0'		85% Exces	S	2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (500' above TOC)	
Production	Tail	601	1.17	703	15.8	Class H + Fluid Loss + Dispersant + Retarder + LCM
TOC = 1190)0'	2	25% Exces	S	2 on btm jt, 1 on 2nd jt, 1 every third jt to top of curve	

Matador Production Company Nina Cortell Fed Com 204H SHL 150' FSL & 1446' FEL BHL 240' FNL & 330' FEL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

5. MUD PROGRAM

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

Туре	Interval (MD)	lb/gal	Viscosity	Fluid Loss
fresh water spud	0' - 1200'	8.3	28	NC
brine water	1200' - 5000'	10.0	30-32	NC
fresh water & cut brine	5000' - 12435'	9.0	30-31	NC
OBM	12435' – 16949'	12.5	50-60	<10

6. <u>CORES, TESTS, & LOGS</u>

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.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is \approx 8000 psi. Expected bottom hole temperature is \approx 170° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an H₂S safety package on all wells, an "H₂S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. OTHER INFORMATION

DRILL PLAN PAGE 5

Matador Production Company Nina Cortell Fed Com 204H SHL 150' FSL & 1446' FEL BHL 240' FNL & 330' FEL Sec. 3, T. 22 S., R. 32 E., Lea County, NM

Anticipated spud date is upon approval. It is expected it will take \approx 3 months to drill and complete the well.

FAFMSS

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

APD ID: 10400025682

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: NINA CORTELL FED

Well Type: OIL WELL

Submission Date: 12/19/2017

Well Number: 204H

Well Work Type: Drill

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06/15/2018

SUPO Data Report

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

NC_204H_Road_Map_20171219101419.pdf

Existing Road Purpose: ACCESS

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_204H_New_Road_Map_20171219101457.pdf

New road type: RESOURCE

Length: 1450.21 Feet

Max slope (%): 0

Max grade (%): 5

Width (ft.): 30

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:

Row(s) Exist? NO

Well Name: NINA CORTELL FED

Well Number: 204H

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_204H_Well_Map_20171219101526.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

Well Name: NINA CORTELL FED

Water source use type: DUST CONTROL, INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE	Wate
CASING Describe type:	Sour
Source latitude:	
Source datum:	
Water source permit type: PRIVATE CONTRACT	
Source land ownership: PRIVATE	

Water source transport method: PIPELINE

Source transportation land ownership: STATE

Water source volume (barrels): 20000

Source volume (gal): 840000

Water source and transportation map:

NC_204H_Water_Source_Map_20171219101610.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 o	of aquifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing insid	e diameter (in.):
New water well casing?	Used casing sour	ce:
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth	(ft.):
Well Production type:	Completion Meth	od:
Water well additional information:		
State appropriation permit:		
Additional information attachment:		

Well Number: 204H

Water source type: GW WELL

Source longitude:

Source volume (acre-feet): 2.577862

Well Name: NINA CORTELL FED

Well Number: 204H

Section 6 - Construction Materials

Construction Materials description: NM One Call (811) will be notified before construction starts. A straw wattle will be installed south of the pad before moving earth to protect an arroyo. A stock water pipeline crossing the NE corner of the pad will be rerouted to the surface owner's satisfaction. A jeep trail that parallels the pipeline will be posted and gated where it crosses the pad to discourage oilfield traffic. Top 6" of soil and brush will be stockpiled north 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_204H_Construction_Methods_20171219101624.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

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

Amount of waste: 2000 barrels

Waste disposal frequency : Daily

Safe containment description: Steel tanks

Safe containmant attachment:

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

FACILITY Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Steel tanks on pad

Operator Name: MATADOR PRODUCTION COMPANY Well Name: NINA CORTELL FED

Well Number: 204H

Cuttings area length (ft.)

Cuttings area depth (ft.)

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_204H_Well_Site_Layout_20171219101642.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: SLOT

Multiple Well Pad Number: 4

Recontouring attachment:

NC_204H_Recontour_Plat_20171219101716.pdf

NC_204H_Interim_Reclamation_Diagram_20171219101744.pdf

Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Well pad proposed disturbance (acres): 3.65	Well pad interim reclamation (acres): 0.73	Well pad long term disturbance (acres): 2.92
Road proposed disturbance (acres): 1	Road interim reclamation (acres): 0	Road long term disturbance (acres): 1
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres) :	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance
(acres): 0 Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	(acres): 0 Other long term disturbance (acres): 0
Total proposed disturbance: 4.65	Total interim reclamation: 0.73	Total long term disturbance: 3.92

Disturbance Comments:

Well Name: NINA CORTELL FED

Well Number: 204H

Reconstruction method: Interim reclamation will be completed within 6 months of completing the well. Interim reclamation will consist of shrinking the pad 20% (0.73 acre) by removing caliche and reclaiming a 100' x 320' area on the northeast corner of the pad. This will leave 2.92 acres for production equipment (e. g., tank battery, heater-treaters, separators, flare/CBU, 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 surface owners' 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 1450.21' 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?

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project?

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 name:

Source name:

Seed source:

Source address:

Well Name: NINA CORTELL FED

Well Number: 204H

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Total pounds/Acre:

Seed Summary
Seed Type Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name: Email:

Phone:

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 standards

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: EXISTING ACCESS ROAD **Describe:**

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

Operator Name: MATADOR PRODUCTION COMPANY Well Name: NINA CORTELL FED

Well Number: 204H

COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

 Fee Owner: Jimmy Mills Trust
 Fee Owner Address: 1602 Ave. J Abernathy TX 79311

 Phone: (806)298-2752
 Email:

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

 Surface access agreement or bond: Agreement
 Surface access agreement or bond: Agreement

Surface Access Agreement Need description: See attachment

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: WELL PAD Describe: Surface Owner: PRIVATE OWNERSHIP Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

Well Name: NINA CORTELL FED

Well Number: 204H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Jimmy Mills Trust Phone: (806)298-2752

Fee Owner Address: 1602 Ave J, Abernathy TX 79311 Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: See attachment

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: NEW ACCESS ROAD Describe: Surface Owner: 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:

Section 12 - Other Information

Right of Way needed? NO

ROW Type(s):

Use APD as ROW?

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_204H_General_SUPO_20171219101835.pdf NC_204H_Surface_Use_Agreement_20171219101919.pdf

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total 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:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type:

injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Surface discharge PWD discharge volume (bbl/day): Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment: Surface Discharge site facilities information: Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment: Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

WAFMSS

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:

Bond Info Data Report 06/15/2018

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Weil Name: NINA CORTELL FED

Well Number: 204H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DM	TVD
PPP Leg #1	264 0	FSL	326	FEL	22S	32E	3	Aliquot SENE	32.42078 2	- 103.6551 06	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	 830 9	145 59	120 99
PPP Leg #1	132 0	FNL	326	FEL	22S	32E	3	Aliquot NENE	32.42735 5	- 103.6551 3	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 135247	- 830 9	158 79	120 99
EXIT Leg #1	240	FNL	330	FEL	22S	32E	3	Lot 1	32.42735 51	- 103.6551 294	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 135247	- 830 9	169 49	120 99
BHL Leg #1	240	FNL	330	FEL	225	32E	3	Lot 1	32.42735 51	- 103.6551 294	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 135247	- 830 9	169 49	120 99