

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.File Serial No.
NMMNM 135247

If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

NINA CORTELL FED COM 121H

2. Name of Operator

Contact: TAMMY R LINK

MATADOR PRODUCTION COMPANYE-Mail: tlink@matadorresources.com

9. API Well No.

30-025-44548

3a. Address

5400 LBJ FREEWAY, SUITE 1500
DALLAS, TX 75240

3b. Phone No. (include area code)

Ph: 575-626-2465

10. Field and Pool or Exploratory Area

BILBREY BASIN, BS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 3 T22S R32E Mer NMP SWSW 150FSL 555FWL

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent☒ Subsequent Report☐ Final Abandonment Notice☐ Acidize☒ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Hydraulic Fracturing☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ Other

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BLM Bond No. NMB001079

Surety Bond No. RLB0015172

Please see attached table for change in Surface casing depth from 1200' to 800' based on Rustler top change.

Please see attached table and spec sheet for change in Production casing from 5 1/2" 20# P110 BTC/TXP to 5 1/2" 20# T-95 Liberty TC (or like connection) x 5 1/2" 17# P110 BTC/DW.

Please also see new directional plan, due to change in SHL and BHL submitted in a separate survey.

Please feel free to contact J.D. Harkrider with any questions at jharkrider@matadorresources.com or

HOBBS OCD**SEP 13 2018****RECEIVED****SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #430755 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 08/13/2018 ()**

Name (Printed/Typed) TAMMY R LINK

Title PRODUCTION ANALYST

Signature (Electronic Submission)

Date 08/10/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Mustafa Haque

Title

**Petroleum Engineer
Carlsbad Field Office**

Date 8-16-2018

Conditions of approval, if any, are attached. Approval of this notice 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.

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.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #430755 that would not fit on the form

32. Additional remarks, continued

972-371-2177.

U.S. Steel Tubular Products Site (<http://usstubular.com/>)

(/)

[Home \(http://usstubular.com/\)](http://usstubular.com/) > [Proprietary Connections Performance Data \(http://usstubular.com/connections/octg/\)](http://usstubular.com/connections/octg/)

Proprietary Connections Performance Data

5.500" 20.00lbs/ft (0.361" Wall) T95 USS-LIBERTY TC™

PDF

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-- Select Alternate Connection --



USC ☒ [View Details](#)

7/30/2018 9:41:08 AM

Mechanical Properties

Pipe

USS-LIBERTY TC™

Mechanical Properties

Minimum Yield Strength	95,000	--	psi
Maximum Yield Strength	110,000	--	psi
Minimum Tensile Strength	105,000	--	psi

Dimensions**Pipe****USS-LIBERTY TC™**

Outside Diameter	5.500	6.154	in.
Wall Thickness	0.361	--	in.
Inside Diameter	4.778	4.714	in.
Standard Drift	4.653	4.653	in.
Alternate Drift	--	--	in.
Coupling Length	--	10.625	in.
Nominal Linear Weight, T&C	20.00	--	lbs/ft
Plain End Weight	19.83	--	lbs/ft

Section Area**Pipe****USS-LIBERTY TC™**

Critical Area	5.828	5.828	sq. in.
Joint Efficiency	--	100.0	%

Performance**Pipe****USS-LIBERTY TC™**

Minimum Collapse Pressure	10,010	10,010	psi
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Performance			
External Pressure Leak Resistance	--	10,010	psi
Minimum Internal Yield Pressure	10,920	10,920	psi
Minimum Pipe Body Yield Strength	554,000	--	lbs
Joint Strength	--	554,000	lbs
Compression Rating	--	554,000	lbs
Reference Length	--	18,467	ft
Maximum Uniaxial Bend Rating	--	79.2	deg/100 ft
Make-Up Data			
	Pipe	USS-LIBERTY TC™	
Make-Up Loss	--	4.30	in.
Minimum Make-Up Torque	--	7,500	ft-lbs
Maximum Make-Up Torque	--	9,500	ft-lbs
Connection Yield Torque	--	15,900	ft-lbs

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
2. Compressive and Tensile Connection Efficiencies are calculated by dividing the connection critical area by the pipe body area.

3. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5. Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
6. Connection external pressure resistance has been verified to 100% API pipe body collapse pressure by API RP 5C5:2014 CAL IV testing protocol.

Legal Notice

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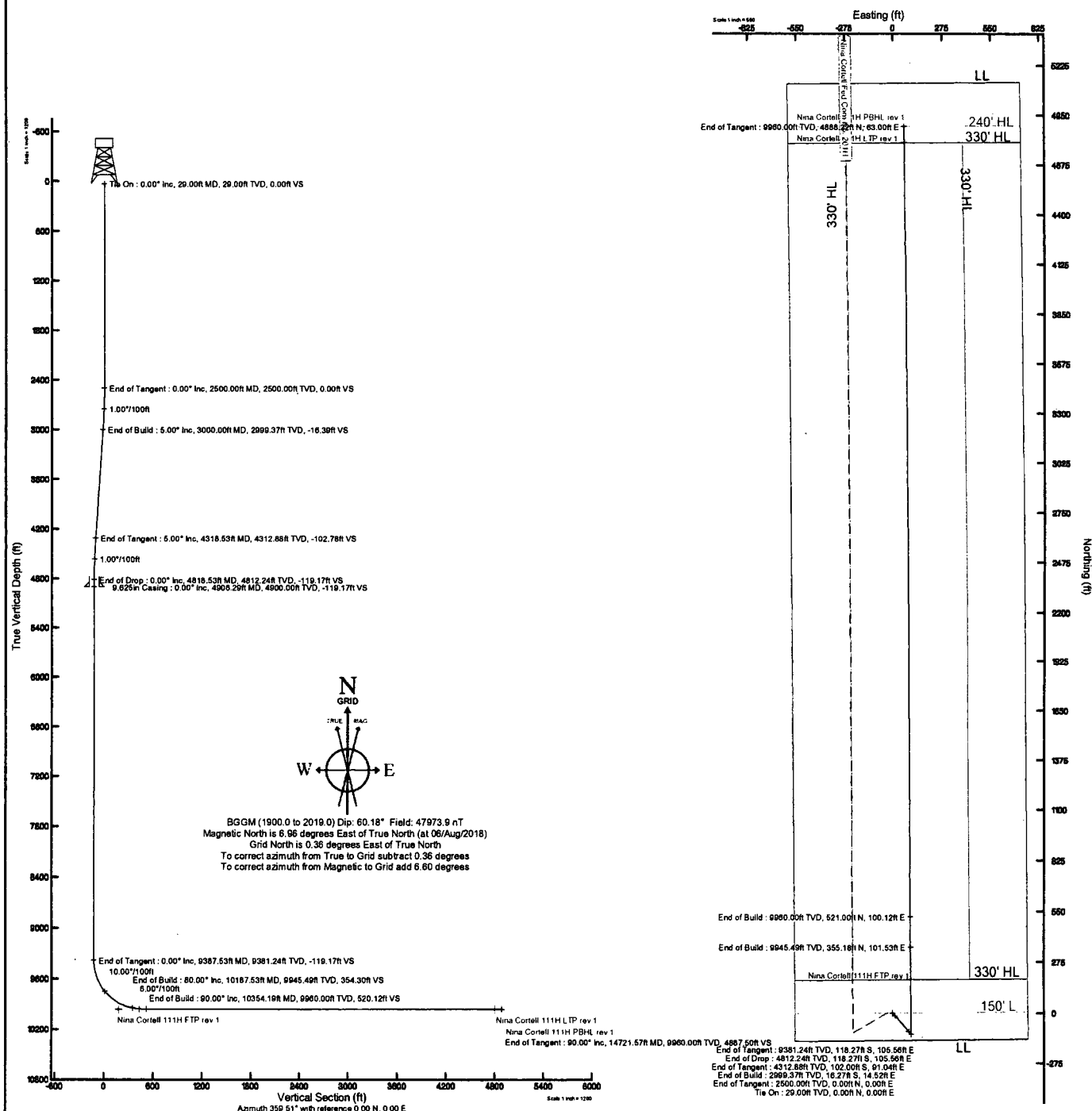
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Slot: Nina Cortell Fed Com No. 121H
Well: Nina Cortell Fed Com No. 121H
~~Wellbore: Nina Cortell Fed Com No. 121H~~

Location Information						
Facility Name			Grid East (US R)	Grid North (US R)	Latitude	Longitude
Mim Cortesi Feed Com Pad			709597.000	514879.000	32°24'48.521"N	105°40'07.871"W
Site		Local E (ft)	Grid East (US R)	Grid North (US R)	Latitude	Longitude
Mim Cortesi Feed Com No. 12114	0.0	0.00	709597.000	514879.000	32°24'48.521"N	105°40'07.871"W
Run to where Cortesi Feed Com No. 11114 (B) to Ground level (At Site: Mim Cortesi Feed Com No. 12114)						
Mean Sea Level to Ground level (At Site: Mim Cortesi Feed Com No. 12114)						
Run to where Cortesi Feed Com No. 11114 (R) to Mean Sea Level						
3722'						





Clearance Report

Nina Cortell Fed Com No. 121H Rev A.0
Closest Approach
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**BAKER
HUGHES**
a GE company



REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Buiduyh
Scale	0.999957	Report Generated	06/Aug/2018 at 21:09
Convergence at slot	0.36° East	Database/Source file	WA_Midland/Nina_Cortell_Fed_Com_No_121H_Rev_A.0_CR.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W
Facility Reference Pt			705057.00	514876.00	32°24'49.521"N	103°40'07.871"W
Field Reference Pt			152400.30	0.00	30°59'42.846"N	105°26'33.659"W

WELLPATH DATUM

Calculation method	Minimum Curvature	Rig on Nina Cortell Fed Com No. 111H (KB) to Facility Vertical Datum	3821.00ft
Horizontal Reference Pt	Slot	Rig on Nina Cortell Fed Com No. 111H (KB) to Mean Sea Level	3821.00ft
Vertical Reference Pt	Rig on Nina Cortell Fed Com No. 111H (KB)	Rig on Nina Cortell Fed Com No. 111H (KB) to Ground Level at Slot (Nina Cortell Fed Com No. 121H)	29.00ft
MD Reference Pt	Rig on Nina Cortell Fed Com No. 111H (KB)		
Field Vertical Reference	Mean Sea Level		

POSITIONAL UNCERTAINTY CALCULATION SETTINGS

Ellipse Confidence Limit	3.00 Std Dev	Ellipse Start MD	29.00ft	Surface Position Uncertainty	Included
Declination	6.96° East of TN	Dip Angle	60.18°	Mag Field Strength	47974 nT
Slot Surface Uncertainty @1SD		Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD		Horizontal	3.300ft	Vertical	3.000ft

Positional Uncertainty values in the WELLPATH DATA table are the projection of the ellipsoid of uncertainty onto the vertical and horizontal planes



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

ANTI-COLLISION RULE			
Rule Name	Baker Hughes Stop Drilling (offset is HSE risk)	Rule Based On	Ratio
Plane of Rule	Closest Approach	Threshold Value	1.00
Include Casing & Hole Size	yes	Apply Cone of Safety	no

HOLE & CASING SECTIONS - Ref Wellbore: Nina Cortell Fed Com No. 121H Ref Wellpath: Nina Cortell Fed Com No. 121H Rev A.0									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing	29.00	4906.29	4877.29	29.00	4900.00	0.00	0.00	-118.27	105.56

SURVEY PROGRAM - Ref Wellbore: Nina Cortell Fed Com No. 121H Ref Wellpath: Nina Cortell Fed Com No. 121H Rev A.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
29.00	2000.00	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 121H
2000.00	4900.00	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 121H
4900.00	9945.00	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 121H
9945.00	10180.00	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 121H
10180.00	14731.15	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 121H

CALCULATION RANGE & CUTOFF		
From: 29.00ft MD	To: 14721.57ft MD	C-C Cutoff: (none)

OFFSET WELL CLEARANCE SUMMARY (1 Offset Wellpath selected) Ratios are calculated in Closest Approach plane											
Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
Nina Cortell Fed Com Pad	Nina Cortell Fed Com No. 201H	Nina Cortell Fed Com No. 201H	Nina Cortell Fed Com No. 201H	Nina Cortell Fed Com No. 201H Rev A.0	29.00	30.00	14629.00	2529.00	1.35	14721.57	PASS



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

CLEARANCE DATA - Offset Wellbore: Nina Cortell Fed Com No. 201H Offset Wellpath: Nina Cortell Fed Com No. 201H Rev A.0												
Facility: Nina Cortell Fed Com Pad		Slot: Nina Cortell Fed Com No. 201H		Well: Nina Cortell Fed Com No. 201H		Threshold Value=1.00		† = Interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
29.00	29.00	0.00	0.00	44.00	29.00	0.00	-30.00	270.00	30.00	1.45	45.11	PASS
129.00†	129.00	0.00	0.00	144.00	129.00	0.00	-30.00	270.00	30.00	2.11	22.35	PASS
229.00†	229.00	0.00	0.00	244.00	229.00	0.00	-30.00	270.00	30.00	3.11	12.63	PASS
329.00†	329.00	0.00	0.00	344.00	329.00	0.00	-30.00	270.00	30.00	4.16	8.69	PASS
429.00†	429.00	0.00	0.00	444.00	429.00	0.00	-30.00	270.00	30.00	5.23	6.60	PASS
529.00†	529.00	0.00	0.00	544.00	529.00	0.00	-30.00	270.00	30.00	6.29	5.32	PASS
629.00†	629.00	0.00	0.00	644.00	629.00	0.00	-30.00	270.00	30.00	7.36	4.45	PASS
729.00†	729.00	0.00	0.00	744.00	729.00	0.00	-30.00	270.00	30.00	8.43	3.83	PASS
829.00†	829.00	0.00	0.00	844.00	829.00	0.00	-30.00	270.00	30.00	9.52	3.35	PASS
929.00†	929.00	0.00	0.00	944.00	929.00	0.00	-30.00	270.00	30.00	10.58	2.99	PASS
1029.00†	1029.00	0.00	0.00	1044.00	1029.00	0.00	-30.00	270.00	30.00	11.65	2.69	PASS
1129.00†	1129.00	0.00	0.00	1144.00	1129.00	0.00	-30.00	270.00	30.00	12.73	2.45	PASS
1229.00†	1229.00	0.00	0.00	1244.00	1229.00	0.00	-30.00	270.00	30.00	13.80	2.25	PASS
1329.00†	1329.00	0.00	0.00	1344.00	1329.00	0.00	-30.00	270.00	30.00	14.88	2.07	PASS
1429.00†	1429.00	0.00	0.00	1444.00	1429.00	0.00	-30.00	270.00	30.00	15.95	1.93	PASS
1529.00†	1529.00	0.00	0.00	1544.00	1529.00	0.00	-30.00	270.00	30.00	17.03	1.80	PASS
1629.00†	1629.00	0.00	0.00	1644.00	1629.00	0.00	-30.00	270.00	30.00	18.10	1.69	PASS
1729.00†	1729.00	0.00	0.00	1744.00	1729.00	0.00	-30.00	270.00	30.00	19.17	1.59	PASS
1829.00†	1829.00	0.00	0.00	1844.00	1829.00	0.00	-30.00	270.00	30.00	20.25	1.50	PASS
1929.00†	1929.00	0.00	0.00	1944.00	1929.00	0.00	-30.00	270.00	30.00	21.28	1.43	PASS
2029.00†	2029.00	0.00	0.00	2044.00	2029.00	0.00	-30.00	270.00	30.00	21.78	1.39	PASS
2129.00†	2129.00	0.00	0.00	2144.00	2129.00	0.00	-30.00	270.00	30.00	21.82	1.39	PASS
2229.00†	2229.00	0.00	0.00	2244.00	2229.00	0.00	-30.00	270.00	30.00	21.92	1.38	PASS
2329.00†	2329.00	0.00	0.00	2344.00	2329.00	0.00	-30.00	270.00	30.00	22.07	1.37	PASS
2429.00†	2429.00	0.00	0.00	2444.00	2429.00	0.00	-30.00	270.00	30.00	22.27	1.36	PASS
2500.00	2500.00	0.00	0.00	2515.00	2500.00	0.00	-30.00	270.00	30.00	22.45	1.35	PASS
2529.00†	2529.00	-0.05	0.05	2544.00	2529.00	0.00	-30.00	270.10	30.05	22.52	1.35	PASS
2629.00†	2628.99	-1.08	0.97	2643.99	2628.99	0.00	-30.00	272.00	30.99	22.83	1.37	PASS
2729.00†	2728.94	-3.41	3.05	2743.94	2728.94	0.00	-30.00	275.90	33.22	23.20	1.45	PASS
2829.00†	2828.82	-7.05	6.29	2843.82	2828.82	0.00	-30.00	280.99	36.97	23.63	1.58	PASS



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

CLEARANCE DATA - Offset Wellbore: Nina Cortell Fed Com No. 201H Offset Wellpath: Nina Cortell Fed Com No. 201H Rev A.0												
Facility: Nina Cortell Fed Com Pad		Slot: Nina Cortell Fed Com No. 201H		Well: Nina Cortell Fed Com No. 201H		Threshold Value=1.00 † = Interpolated/extrapolated station						
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2929.00†	2928.60	-11.98	10.69	2943.60	2928.60	0.00	-30.00	286.40	42.42	24.10	1.79	PASS
3000.00	2999.37	-16.27	14.52	3014.37	2999.37	0.00	-30.00	290.07	47.40	24.45	1.97	PASS
3029.00†	3028.26	-18.15	16.20	3043.26	3028.26	0.00	-30.00	291.45	49.64	24.60	2.05	PASS
3129.00†	3127.87	-24.65	22.00	3142.87	3127.87	0.00	-30.00	295.36	57.55	25.12	2.33	PASS
3229.00†	3227.49	-31.16	27.81	3242.49	3227.49	0.00	-30.00	298.32	65.67	25.68	2.61	PASS
3329.00†	3327.11	-37.66	33.61	3342.11	3327.11	0.00	-30.00	300.63	73.92	26.27	2.87	PASS
3429.00†	3426.73	-44.16	39.42	3441.73	3426.73	0.00	-30.00	302.46	82.27	26.89	3.12	PASS
3529.00†	3526.35	-50.66	45.22	3541.35	3526.35	0.00	-30.00	303.96	90.69	27.54	3.36	PASS
3629.00†	3625.97	-57.17	51.02	3640.97	3625.97	0.00	-30.00	305.21	99.16	28.22	3.59	PASS
3729.00†	3725.59	-63.67	56.83	3740.59	3725.59	0.00	-30.00	306.25	107.67	28.92	3.80	PASS
3829.00†	3825.21	-70.17	62.63	3840.21	3825.21	0.00	-30.00	307.15	116.21	29.64	4.00	PASS
3929.00†	3924.83	-76.67	68.43	3939.83	3924.83	0.00	-30.00	307.92	124.77	30.38	4.19	PASS
4029.00†	4024.45	-83.17	74.24	4039.45	4024.45	0.00	-30.00	308.59	133.36	31.15	4.37	PASS
4129.00†	4124.07	-89.68	80.04	4139.07	4124.07	0.00	-30.00	309.18	141.95	31.93	4.53	PASS
4229.00†	4223.69	-96.18	85.84	4238.69	4223.69	0.00	-30.00	309.70	150.57	32.73	4.69	PASS
4318.53	4312.88	-102.00	91.04	4327.88	4312.88	0.00	-30.00	310.12	158.29	33.46	4.82	PASS
4329.00†	4323.31	-102.67	91.64	4338.31	4323.31	0.00	-30.00	310.17	159.18	33.55	4.84	PASS
4429.00†	4423.01	-108.39	96.74	4438.01	4423.01	0.00	-30.00	310.54	166.77	34.38	4.94	PASS
4529.00†	4522.84	-112.81	100.69	4537.84	4522.84	0.00	-30.00	310.80	172.64	35.25	4.99	PASS
4629.00†	4622.75	-115.93	103.47	4637.75	4622.75	0.00	-30.00	310.98	176.79	36.12	4.98	PASS
4729.00†	4722.72	-117.75	105.09	4737.72	4722.72	0.00	-30.00	311.08	179.20	37.01	4.93	PASS
4818.53	4812.24	-118.27	105.56	4827.24	4812.24	0.00	-30.00	311.10	179.90	37.79	4.84	PASS
4829.00†	4822.71	-118.27	105.56	4837.71	4822.71	0.00	-30.00	311.10	179.90	37.86	4.83	PASS
4929.00†	4922.71	-118.27	105.56	4937.71	4922.71	0.00	-30.00	311.10	179.90	37.46	4.80	PASS
5029.00†	5022.71	-118.27	105.56	5037.33	5022.33	-0.06	-30.11	311.07	179.94	37.48	4.80	PASS
5129.00†	5122.71	-118.27	105.56	5136.29	5121.27	-0.80	-31.41	310.62	180.44	37.53	4.81	PASS
5229.00†	5222.71	-118.27	105.56	5235.16	5220.09	-2.40	-34.19	309.66	181.56	37.61	4.83	PASS
5329.00†	5322.71	-118.27	105.56	5333.90	5318.71	-4.83	-38.44	308.23	183.36	37.72	4.86	PASS
5429.00†	5422.71	-118.27	105.56	5432.43	5417.02	-8.10	-44.16	306.35	185.97	37.87	4.91	PASS
5529.00†	5522.71	-118.27	105.56	5531.16	5515.41	-12.17	-51.28	304.08	189.50	38.05	4.98	PASS



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

CLEARANCE DATA - Offset Wellbore: Nina Cortell Fed Com No. 201H Offset Wellpath: Nina Cortell Fed Com No. 201H Rev A.0												
Facility: Nina Cortell Fed Com Pad		Slot: Nina Cortell Fed Com No. 201H		Well: Nina Cortell Fed Com No. 201H		Threshold Value=1.00 † = interpolated/extrapolated station						
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5629.00†	5622.71	-118.27	105.56	5630.78	5614.65	-16.48	-58.82	301.77	193.51	38.27	5.06	PASS
5729.00†	5722.71	-118.27	105.56	5730.40	5713.89	-20.79	-66.36	299.55	197.82	38.53	5.13	PASS
5829.00†	5822.71	-118.27	105.56	5830.02	5813.13	-25.11	-73.90	297.44	202.42	38.81	5.22	PASS
5929.00†	5922.71	-118.27	105.56	5929.64	5912.37	-29.42	-81.43	295.42	207.28	39.13	5.30	PASS
6029.00†	6022.71	-118.27	105.56	6029.26	6011.61	-33.73	-88.97	293.49	212.39	39.47	5.38	PASS
6129.00†	6122.71	-118.27	105.56	6128.88	6110.85	-38.04	-96.51	291.66	217.73	39.84	5.47	PASS
6229.00†	6222.71	-118.27	105.56	6228.50	6210.09	-42.35	-104.04	289.91	223.28	40.23	5.55	PASS
6329.00†	6322.71	-118.27	105.56	6328.12	6309.33	-46.66	-111.58	288.25	229.03	40.65	5.63	PASS
6429.00†	6422.71	-118.27	105.56	6427.74	6408.57	-50.97	-119.12	286.68	234.96	41.10	5.72	PASS
6529.00†	6522.71	-118.27	105.56	6527.36	6507.81	-55.28	-126.65	285.18	241.06	41.56	5.80	PASS
6629.00†	6622.71	-118.27	105.56	6626.98	6607.06	-59.59	-134.19	283.75	247.32	42.05	5.88	PASS
6729.00†	6722.71	-118.27	105.56	6726.60	6706.30	-63.90	-141.73	282.40	253.72	42.57	5.96	PASS
6829.00†	6822.71	-118.27	105.56	6826.22	6805.54	-68.21	-149.26	281.11	260.26	43.10	6.04	PASS
6929.00†	6922.71	-118.27	105.56	6925.84	6904.78	-72.52	-156.80	279.89	266.92	43.65	6.12	PASS
7029.00†	7022.71	-118.27	105.56	7025.46	7004.02	-76.83	-164.34	278.73	273.70	44.22	6.19	PASS
7129.00†	7122.71	-118.27	105.56	7125.08	7103.26	-81.14	-171.87	277.62	280.58	44.81	6.26	PASS
7229.00†	7222.71	-118.27	105.56	7224.69	7202.50	-85.45	-179.41	276.57	287.56	45.41	6.33	PASS
7329.00†	7322.71	-118.27	105.56	7324.31	7301.74	-89.76	-186.95	275.57	294.64	46.04	6.40	PASS
7429.00†	7422.71	-118.27	105.56	7423.93	7400.98	-94.08	-194.48	274.61	301.80	46.67	6.47	PASS
7529.00†	7522.71	-118.27	105.56	7523.55	7500.22	-98.39	-202.02	273.70	309.04	47.33	6.53	PASS
7629.00†	7622.71	-118.27	105.56	7625.71	7602.01	-102.68	-209.52	272.83	316.15	48.02	6.58	PASS
7729.00†	7722.71	-118.27	105.56	7730.42	7706.47	-106.24	-215.75	272.14	321.95	48.74	6.61	PASS
7829.00†	7822.71	-118.27	105.56	7835.34	7811.26	-108.86	-220.33	271.65	326.23	49.47	6.59	PASS
7929.00†	7922.71	-118.27	105.56	7940.43	7916.29	-110.53	-223.25	271.35	328.96	50.21	6.55	PASS
8029.00†	8022.71	-118.27	105.56	8045.60	8021.46	-111.24	-224.49	271.22	330.13	50.94	6.48	PASS
8129.00†	8122.71	-118.27	105.56	8146.86	8122.71	-111.27	-224.54	271.21	330.17	51.64	6.39	PASS
8229.00†	8222.71	-118.27	105.56	8246.86	8222.71	-111.27	-224.54	271.21	330.17	52.34	6.31	PASS
8329.00†	8322.71	-118.27	105.56	8346.86	8322.71	-111.27	-224.54	271.21	330.17	53.05	6.22	PASS
8429.00†	8422.71	-118.27	105.56	8446.86	8422.71	-111.27	-224.54	271.21	330.17	53.77	6.14	PASS
8529.00†	8522.71	-118.27	105.56	8546.86	8522.71	-111.27	-224.54	271.21	330.17	54.51	6.06	PASS



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

CLEARANCE DATA - Offset Wellbore: Nina Cortell Fed Com No. 201H Offset Wellpath: Nina Cortell Fed Com No. 201H Rev A.0												
Facility: Nina Cortell Fed Com Pad		Slot: Nina Cortell Fed Com No. 201H		Well: Nina Cortell Fed Com No. 201H		Threshold Value=1.00 † = interpolated/extrapolated station						
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8629.00†	8622.71	-118.27	105.56	8646.86	8622.71	-111.27	-224.54	271.21	330.17	55.26	5.98	PASS
8729.00†	8722.71	-118.27	105.56	8746.86	8722.71	-111.27	-224.54	271.21	330.17	56.01	5.89	PASS
8829.00†	8822.71	-118.27	105.56	8846.86	8822.71	-111.27	-224.54	271.21	330.17	56.78	5.81	PASS
8929.00†	8922.71	-118.27	105.56	8946.86	8922.71	-111.27	-224.54	271.21	330.17	57.56	5.74	PASS
9029.00†	9022.71	-118.27	105.56	9046.86	9022.71	-111.27	-224.54	271.21	330.17	58.34	5.66	PASS
9129.00†	9122.71	-118.27	105.56	9146.86	9122.71	-111.27	-224.54	271.21	330.17	59.14	5.58	PASS
9229.00†	9222.71	-118.27	105.56	9246.86	9222.71	-111.27	-224.54	271.21	330.17	59.95	5.51	PASS
9329.00†	9322.71	-118.27	105.56	9346.86	9322.71	-111.27	-224.54	271.21	330.17	60.76	5.43	PASS
9387.53	9381.24	-118.27	105.56	9405.39	9381.24	-111.27	-224.54	271.21	330.17	61.24	5.39	PASS
9429.00†	9422.68	-116.77	105.54	9446.83	9422.68	-111.27	-224.54	270.95	330.13	61.57	5.36	PASS
9529.00†	9521.28	-100.89	105.41	9545.43	9521.28	-111.27	-224.54	268.20	330.12	62.32	5.30	PASS
9629.00†	9615.63	-68.13	105.13	9639.78	9615.63	-111.27	-224.54	262.55	332.48	63.00	5.28	PASS
9729.00†	9702.85	-19.49	104.72	9727.00	9702.85	-111.27	-224.54	254.43	341.81	63.75	5.36	PASS
9829.00†	9780.31	43.56	104.18	9804.46	9780.31	-111.27	-224.54	244.78	363.36	64.72	5.61	PASS
9929.00†	9845.64	119.10	103.54	9869.79	9845.64	-111.27	-224.54	234.93	400.88	65.92	6.08	PASS
10029.00†	9896.85	204.84	102.81	9921.00	9896.85	-111.27	-224.54	226.00	455.06	69.69	6.53	PASS
10129.00†	9932.41	298.17	102.02	9956.56	9932.41	-111.27	-224.54	218.58	523.71	71.24	7.35	PASS
10187.53	9945.49	355.18	101.53	9969.64	9945.49	-111.27	-224.54	214.96	569.12	72.52	7.85	PASS
10229.00†	9951.81	396.17	101.19	9975.96	9951.81	-111.27	-224.54	212.70	602.98	72.96	8.26	PASS
10329.00†	9959.67	495.81	100.34	9983.82	9959.67	-111.27	-224.54	208.15	688.54	73.81	9.33	PASS
10354.19	9960.00	521.00	100.12	9984.15	9960.00	-111.27	-224.54	207.18	710.75	73.98	9.61	PASS
10429.00†	9960.00	595.80	99.49	9984.15	9960.00	-111.27	-224.54	204.62	777.78	74.42	10.45	PASS
10529.00†	9960.00	695.80	98.64	9984.15	9960.00	-111.27	-224.54	201.82	869.37	74.89	11.61	PASS
10629.00†	9960.00	795.79	97.79	9984.15	9960.00	-111.27	-224.54	199.56	962.63	75.27	12.79	PASS
10729.00†	9960.00	895.79	96.94	9984.15	9960.00	-111.27	-224.54	197.70	1057.13	75.58	13.99	PASS
10829.00†	9960.00	995.79	96.09	9984.15	9960.00	-111.27	-224.54	196.15	1152.55	75.85	15.20	PASS
10929.00†	9960.00	1095.78	95.24	9984.15	9960.00	-111.27	-224.54	194.84	1248.69	76.08	16.41	PASS
11029.00†	9960.00	1195.78	94.39	9984.15	9960.00	-111.27	-224.54	193.71	1345.40	76.28	17.64	PASS
11129.00†	9960.00	1295.78	93.54	9984.15	9960.00	-111.27	-224.54	192.74	1442.55	76.47	18.87	PASS
11229.00†	9960.00	1395.77	92.69	9984.15	9960.00	-111.27	-224.54	191.89	1540.07	76.64	20.10	PASS



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

CLEARANCE DATA - Offset Wellbore: Nina Cortell Fed Com No. 201H Offset Wellpath: Nina Cortell Fed Com No. 201H Rev A.0												
Facility: Nina Cortell Fed Com Pad		Slot: Nina Cortell Fed Com No. 201H		Well: Nina Cortell Fed Com No. 201H		Threshold Value=1.00 † = Interpolated/extrapolated station						
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11329.00†	9960.00	1495.77	91.84	9984.15	9960.00	-111.27	-224.54	191.14	1637.88	76.80	21.33	PASS
11429.00†	9960.00	1595.77	90.99	9984.15	9960.00	-111.27	-224.54	190.47	1735.95	76.95	22.56	PASS
11529.00†	9960.00	1695.76	90.14	9984.15	9960.00	-111.27	-224.54	189.88	1834.22	77.09	23.79	PASS
11629.00†	9960.00	1795.76	89.29	9984.15	9960.00	-111.27	-224.54	189.35	1932.68	77.23	25.02	PASS
11729.00†	9960.00	1895.75	88.44	9984.15	9960.00	-111.27	-224.54	188.86	2031.28	77.37	26.25	PASS
11829.00†	9960.00	1995.75	87.59	13913.06	12036.00	1992.95	-242.43	269.51	2102.07	82.57	25.46	PASS
11929.00†	9960.00	2095.75	86.74	14013.06	12036.00	2092.94	-243.28	269.51	2102.07	83.94	25.04	PASS
12029.00†	9960.00	2195.74	85.89	14113.06	12036.00	2192.94	-244.13	269.51	2102.07	85.37	24.62	PASS
12129.00†	9960.00	2295.74	85.04	14213.06	12036.00	2292.94	-244.98	269.51	2102.07	86.84	24.21	PASS
12229.00†	9960.00	2395.74	84.19	14313.06	12036.00	2392.93	-245.83	269.51	2102.07	88.36	23.79	PASS
12329.00†	9960.00	2495.73	83.34	14413.06	12036.00	2492.93	-246.68	269.51	2102.07	89.92	23.38	PASS
12429.00†	9960.00	2595.73	82.49	14513.06	12036.00	2592.92	-247.53	269.51	2102.07	91.53	22.97	PASS
12529.00†	9960.00	2695.73	81.64	14613.06	12036.00	2692.92	-248.38	269.51	2102.07	93.18	22.56	PASS
12629.00†	9960.00	2795.72	80.79	14713.06	12036.00	2792.92	-249.23	269.51	2102.07	94.86	22.16	PASS
12729.00†	9960.00	2895.72	79.94	14813.06	12036.00	2892.91	-250.08	269.51	2102.07	96.59	21.76	PASS
12829.00†	9960.00	2995.72	79.09	14913.06	12036.00	2992.91	-250.93	269.51	2102.07	98.34	21.37	PASS
12929.00†	9960.00	3095.71	78.24	15013.06	12036.00	3092.91	-251.78	269.51	2102.07	100.14	20.99	PASS
13029.00†	9960.00	3195.71	77.39	15113.06	12036.00	3192.90	-252.63	269.51	2102.07	101.96	20.62	PASS
13129.00†	9960.00	3295.70	76.54	15213.06	12036.00	3292.90	-253.48	269.51	2102.07	103.81	20.25	PASS
13229.00†	9960.00	3395.70	75.69	15313.06	12036.00	3392.90	-254.33	269.51	2102.07	105.69	19.89	PASS
13329.00†	9960.00	3495.70	74.84	15413.06	12036.00	3492.89	-255.18	269.51	2102.07	107.60	19.54	PASS
13429.00†	9960.00	3595.69	73.99	15513.06	12036.00	3592.89	-256.03	269.51	2102.07	109.53	19.19	PASS
13529.00†	9960.00	3695.69	73.14	15613.06	12036.00	3692.88	-256.88	269.51	2102.07	111.48	18.86	PASS
13629.00†	9960.00	3795.69	72.29	15713.06	12036.00	3792.88	-257.73	269.51	2102.07	113.46	18.53	PASS
13729.00†	9960.00	3895.68	71.44	15813.06	12036.00	3892.88	-258.58	269.51	2102.07	115.45	18.21	PASS
13829.00†	9960.00	3995.68	70.59	15913.06	12036.00	3992.87	-259.43	269.51	2102.07	117.47	17.89	PASS
13929.00†	9960.00	4095.68	69.74	16013.06	12036.00	4092.87	-260.28	269.51	2102.07	119.51	17.59	PASS
14029.00†	9960.00	4195.67	68.89	16113.06	12036.00	4192.87	-261.13	269.51	2102.07	121.57	17.29	PASS
14129.00†	9960.00	4295.67	68.04	16213.06	12036.00	4292.86	-261.98	269.51	2102.07	123.64	17.00	PASS
14229.00†	9960.00	4395.66	67.19	16313.06	12036.00	4392.86	-262.83	269.51	2102.07	125.73	16.72	PASS



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

CLEARANCE DATA - Offset Wellbore: Nina Cortell Fed Com No. 201H Offset Wellpath: Nina Cortell Fed Com No. 201H Rev A.0

Facility: Nina Cortell Fed Com Pad Slot: Nina Cortell Fed Com No. 201H Well: Nina Cortell Fed Com No. 201H Threshold Value=1.00 † = Interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14329.00†	9960.00	4495.66	66.34	16413.06	12036.00	4492.86	-263.68	269.51	2102.07	127.84	16.44	PASS
14429.00†	9960.00	4595.66	65.49	16513.06	12036.00	4592.85	-264.53	269.51	2102.07	129.96	16.17	PASS
14529.00†	9960.00	4695.65	64.64	16613.06	12036.00	4692.85	-265.38	269.51	2102.07	132.09	15.91	PASS
14629.00†	9960.00	4795.65	63.79	16713.06	12036.00	4792.84	-266.23	269.51	2102.07	134.24	15.66	PASS
14721.57	9960.00	4888.22	63.00	16805.44	12036.00	4885.22	-267.01	269.48	2102.07	136.24	15.43	PASS

POSITIONAL UNCERTAINTY - Offset Wellbore: Nina Cortell Fed Com No. 201H Offset Wellpath: Nina Cortell Fed Com No. 201H Rev A.0

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	3.300ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: Nina Cortell Fed Com No. 201H Offset Wellpath: Nina Cortell Fed Com No. 201H Rev A.0

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing	29.00	4915.00	4886.00	14.00	4900.00	0.00	-18.29	0.00	-18.29

SURVEY PROGRAM - Offset Wellbore: Nina Cortell Fed Com No. 201H Offset Wellpath: Nina Cortell Fed Com No. 201H Rev A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
29.00	2000.00	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 201H
2000.00	4900.00	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 201H
4900.00	12281.00	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 201H
12281.00	16805.44	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 201H



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

OFFSET WELLPATH REFERENCE - Offset Wellbore: Nina Cortell Fed Com No. 201H Offset Wellpath: Nina Cortell Fed Com No. 201H Rev A.0	
MD Reference: Rig: Patterson 297 (KB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	29.00ft



Planned Wellpath Report

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**BAKER
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Buiduyh
Scale	0.999957	Report Generated	06/Aug/2018 at 21:08
Convergence at slot	0.36° East	Database/Source file	WA_Midland/Nina_Cortell_Fed_Com_No._121H_Rev_A.0.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W
Facility Reference Pt			705057.00	514876.00	32°24'49.521"N	103°40'07.871"W
Field Reference Pt			152400.30	0.00	30°59'42.846"N	105°26'33.659"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on Nina Cortell Fed Com No. 111H (KB) to Facility Vertical Datum	3821.00ft
Horizontal Reference Pt	Slot	Rig on Nina Cortell Fed Com No. 111H (KB) to Mean Sea Level	3821.00ft
Vertical Reference Pt	Rig on Nina Cortell Fed Com No. 111H (KB)	Rig on Nina Cortell Fed Com No. 111H (KB) to Ground Level at Slot (Nina Cortell Fed Com No. 121H)	29.00ft
MD Reference Pt	Rig on Nina Cortell Fed Com No. 111H (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.51°



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (167 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	138.250	0.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
29.00	0.000	138.250	29.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	Tie On
129.00†	0.000	138.250	129.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
229.00†	0.000	138.250	229.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
329.00†	0.000	138.250	329.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
429.00†	0.000	138.250	429.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
449.00†	0.000	138.250	449.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	Z (Dewey Lake (P))
529.00†	0.000	138.250	529.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
629.00†	0.000	138.250	629.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
729.00†	0.000	138.250	729.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
780.00†	0.000	138.250	780.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	Z (Rustler)
829.00†	0.000	138.250	829.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
929.00†	0.000	138.250	929.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
1029.00†	0.000	138.250	1029.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
1129.00†	0.000	138.250	1129.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
1229.00†	0.000	138.250	1229.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
1329.00†	0.000	138.250	1329.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
1425.00†	0.000	138.250	1425.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	Z (Salado) (Top Salt)
1429.00†	0.000	138.250	1429.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
1529.00†	0.000	138.250	1529.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
1629.00†	0.000	138.250	1629.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
1729.00†	0.000	138.250	1729.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
1829.00†	0.000	138.250	1829.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
1929.00†	0.000	138.250	1929.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
2029.00†	0.000	138.250	2029.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
2129.00†	0.000	138.250	2129.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
2229.00†	0.000	138.250	2229.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
2329.00†	0.000	138.250	2329.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
2429.00†	0.000	138.250	2429.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	
2500.00	0.000	138.250	2500.00	0.00	0.00	0.00	705057.00	514876.00	32°24'49.521"N	103°40'07.871"W	0.00	End of Tangent



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (167 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2529.00†	0.290	138.250	2529.00	-0.06	-0.05	0.05	705057.05	514875.95	32°24'49.520"N	103°40'07.870"W	1.00	
2629.00†	1.290	138.250	2628.99	-1.09	-1.08	0.97	705057.97	514874.92	32°24'49.510"N	103°40'07.860"W	1.00	
2729.00†	2.290	138.250	2728.94	-3.44	-3.41	3.05	705060.05	514872.59	32°24'49.487"N	103°40'07.836"W	1.00	
2829.00†	3.290	138.250	2828.82	-7.10	-7.05	6.29	705063.29	514868.96	32°24'49.451"N	103°40'07.798"W	1.00	
2929.00†	4.290	138.250	2928.60	-12.07	-11.98	10.69	705067.69	514864.02	32°24'49.402"N	103°40'07.747"W	1.00	
3000.00	5.000	138.250	2999.37	-16.39	-16.27	14.52	705071.52	514859.73	32°24'49.359"N	103°40'07.703"W	1.00	End of Build
3029.00†	5.000	138.250	3028.26	-18.29	-18.15	16.20	705073.20	514857.85	32°24'49.340"N	103°40'07.683"W	0.00	
3129.00†	5.000	138.250	3127.87	-24.84	-24.65	22.00	705079.00	514851.35	32°24'49.276"N	103°40'07.616"W	0.00	
3229.00†	5.000	138.250	3227.49	-31.39	-31.16	27.81	705084.81	514844.85	32°24'49.211"N	103°40'07.549"W	0.00	
3329.00†	5.000	138.250	3327.11	-37.94	-37.66	33.61	705090.61	514838.34	32°24'49.146"N	103°40'07.482"W	0.00	
3429.00†	5.000	138.250	3426.73	-44.50	-44.16	39.42	705096.41	514831.84	32°24'49.082"N	103°40'07.414"W	0.00	
3529.00†	5.000	138.250	3526.35	-51.05	-50.66	45.22	705102.22	514825.34	32°24'49.017"N	103°40'07.347"W	0.00	
3535.67†	5.000	138.250	3533.00	-51.49	-51.10	45.61	705102.60	514824.91	32°24'49.013"N	103°40'07.343"W	0.00	Z (Castile (T))
3629.00†	5.000	138.250	3625.97	-57.60	-57.17	51.02	705108.02	514818.84	32°24'48.952"N	103°40'07.280"W	0.00	
3729.00†	5.000	138.250	3725.59	-64.15	-63.67	56.83	705113.82	514812.33	32°24'48.887"N	103°40'07.213"W	0.00	
3829.00†	5.000	138.250	3825.21	-70.70	-70.17	62.63	705119.63	514805.83	32°24'48.823"N	103°40'07.145"W	0.00	
3929.00†	5.000	138.250	3924.83	-77.25	-76.67	68.43	705125.43	514799.33	32°24'48.758"N	103°40'07.078"W	0.00	
4029.00†	5.000	138.250	4024.45	-83.81	-83.17	74.24	705131.23	514792.83	32°24'48.693"N	103°40'07.011"W	0.00	
4129.00†	5.000	138.250	4124.07	-90.36	-89.68	80.04	705137.04	514786.33	32°24'48.629"N	103°40'06.944"W	0.00	
4229.00†	5.000	138.250	4223.69	-96.91	-96.18	85.84	705142.84	514779.82	32°24'48.564"N	103°40'06.877"W	0.00	
4318.53	5.000	138.250	4312.88	-102.78	-102.00	91.04	705148.04	514774.00	32°24'48.506"N	103°40'06.816"W	0.00	End of Tangent
4329.00†	4.895	138.250	4323.31	-103.45	-102.67	91.64	705148.64	514773.33	32°24'48.499"N	103°40'06.809"W	1.00	
4429.00†	3.895	138.250	4423.01	-109.22	-108.39	96.74	705153.74	514767.61	32°24'48.442"N	103°40'06.750"W	1.00	
4529.00†	2.895	138.250	4522.84	-113.67	-112.81	100.69	705157.68	514763.19	32°24'48.399"N	103°40'06.705"W	1.00	
4629.00†	1.895	138.250	4622.75	-116.81	-115.93	103.47	705160.47	514760.08	32°24'48.367"N	103°40'06.672"W	1.00	
4729.00†	0.895	138.250	4722.72	-118.64	-117.75	105.09	705162.09	514758.26	32°24'48.349"N	103°40'06.654"W	1.00	
4818.53	0.000	359.513	4812.24	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	1.00	End of Drop
4829.00†	0.000	359.513	4822.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
4886.29†	0.000	359.513	4880.00	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	Z (G30:CS14-CSB) (Base of Salt)
4929.00†	0.000	359.513	4922.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (167 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4986.29†	0.000	359.513	4980.00	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	Z (G26: Bell Cyn.)
5029.00†	0.000	359.513	5022.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
5129.00†	0.000	359.513	5122.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
5229.00†	0.000	359.513	5222.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
5329.00†	0.000	359.513	5322.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
5429.00†	0.000	359.513	5422.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
5529.00†	0.000	359.513	5522.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
5629.00†	0.000	359.513	5622.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
5729.00†	0.000	359.513	5722.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
5829.00†	0.000	359.513	5822.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
5929.00†	0.000	359.513	5922.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
5960.29†	0.000	359.513	5954.00	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	Z (G13: Cherry Cyn.)
6029.00†	0.000	359.513	6022.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
6129.00†	0.000	359.513	6122.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
6229.00†	0.000	359.513	6222.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
6329.00†	0.000	359.513	6322.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
6429.00†	0.000	359.513	6422.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
6529.00†	0.000	359.513	6522.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
6629.00†	0.000	359.513	6622.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
6729.00†	0.000	359.513	6722.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
6829.00†	0.000	359.513	6822.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
6924.29†	0.000	359.513	6918.00	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	Z (G7: Brushy Cyn.) Antelope Ridge
6929.00†	0.000	359.513	6922.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
7029.00†	0.000	359.513	7022.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
7129.00†	0.000	359.513	7122.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
7229.00†	0.000	359.513	7222.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
7329.00†	0.000	359.513	7322.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
7429.00†	0.000	359.513	7422.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
7529.00†	0.000	359.513	7522.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
7629.00†	0.000	359.513	7622.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (167 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7729.00†	0.000	359.513	7722.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
7829.00†	0.000	359.513	7822.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
7929.00†	0.000	359.513	7922.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
8029.00†	0.000	359.513	8022.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
8129.00†	0.000	359.513	8122.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
8229.00†	0.000	359.513	8222.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
8329.00†	0.000	359.513	8322.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
8429.00†	0.000	359.513	8422.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
8529.00†	0.000	359.513	8522.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
8629.00†	0.000	359.513	8622.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
8729.00†	0.000	359.513	8722.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
8829.00†	0.000	359.513	8822.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
8922.29†	0.000	359.513	8916.00	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	Z (G4: BSGL (CS9))
8929.00†	0.000	359.513	8922.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
9029.00†	0.000	359.513	9022.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
9129.00†	0.000	359.513	9122.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
9229.00†	0.000	359.513	9222.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
9329.00†	0.000	359.513	9322.71	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	
9387.53	0.000	359.513	9381.24	-119.17	-118.27	105.56	705162.55	514757.74	32°24'48.344"N	103°40'06.648"W	0.00	End of Tangent
9429.00†	4.147	359.513	9422.68	-117.66	-116.77	105.54	705162.54	514759.24	32°24'48.359"N	103°40'06.648"W	10.00	
9529.00†	14.147	359.513	9521.28	-101.79	-100.89	105.41	705162.41	514775.11	32°24'48.516"N	103°40'06.649"W	10.00	
9629.00†	24.147	359.513	9615.63	-69.03	-68.13	105.13	705162.13	514807.87	32°24'48.840"N	103°40'06.650"W	10.00	
9651.53†	26.400	359.513	9636.00	-59.41	-58.51	105.05	705162.05	514817.49	32°24'48.936"N	103°40'06.650"W	10.00	Z (L5.3: FBSC)
9729.00†	34.147	359.513	9702.85	-20.38	-19.49	104.72	705161.71	514856.51	32°24'49.322"N	103°40'06.651"W	10.00	
9829.00†	44.147	359.513	9780.31	42.67	43.56	104.18	705161.18	514919.56	32°24'49.946"N	103°40'06.653"W	10.00	
9887.29†	49.977	359.513	9820.00	85.32	86.21	103.82	705160.82	514962.21	32°24'50.368"N	103°40'06.654"W	10.00	Z (L5.1: FBSG)
9929.00†	54.147	359.513	9845.64	118.21	119.10	103.54	705160.54	514995.09	32°24'50.693"N	103°40'06.655"W	10.00	
10029.00†	64.147	359.513	9896.85	203.95	204.84	102.81	705159.81	515080.83	32°24'51.542"N	103°40'06.657"W	10.00	
10129.00†	74.147	359.513	9932.41	297.28	298.17	102.02	705159.01	515174.15	32°24'52.465"N	103°40'06.659"W	10.00	
10187.53	80.000	359.513	9945.49	354.30	355.18	101.53	705158.53	515231.16	32°24'53.029"N	103°40'06.661"W	10.00	End of Build



Planned Wellpath Report

Nina Cortell Fed Com No. 121H Rev A.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (167 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10229.00†	82.488	359.513	9951.81	395.29	396.17	101.19	705158.18	515272.15	32°24'53.435"N	103°40'06.662"W	6.00	
10329.00†	88.488	359.513	9959.67	494.93	495.81	100.34	705157.33	515371.79	32°24'54.421"N	103°40'06.665"W	6.00	
10354.19	90.000	359.513	9960.00	520.12	521.00	100.12	705157.12	515396.97	32°24'54.670"N	103°40'06.665"W	6.00	End of Build
10429.00†	90.000	359.513	9960.00	594.93	595.80	99.49	705156.48	515471.78	32°24'55.410"N	103°40'06.667"W	0.00	
10529.00†	90.000	359.513	9960.00	694.93	695.80	98.64	705155.63	515571.77	32°24'56.400"N	103°40'06.670"W	0.00	
10629.00†	90.000	359.513	9960.00	794.93	795.79	97.79	705154.78	515671.76	32°24'57.389"N	103°40'06.673"W	0.00	
10729.00†	90.000	359.513	9960.00	894.93	895.79	96.94	705153.93	515771.75	32°24'58.379"N	103°40'06.675"W	0.00	
10829.00†	90.000	359.513	9960.00	994.93	995.79	96.09	705153.08	515871.74	32°24'59.368"N	103°40'06.678"W	0.00	
10929.00†	90.000	359.513	9960.00	1094.93	1095.78	95.24	705152.23	515971.73	32°25'00.358"N	103°40'06.680"W	0.00	
11029.00†	90.000	359.513	9960.00	1194.93	1195.78	94.39	705151.38	516071.73	32°25'01.347"N	103°40'06.683"W	0.00	
11129.00†	90.000	359.513	9960.00	1294.93	1295.78	93.54	705150.53	516171.72	32°25'02.337"N	103°40'06.686"W	0.00	
11229.00†	90.000	359.513	9960.00	1394.93	1395.77	92.69	705149.68	516271.71	32°25'03.326"N	103°40'06.688"W	0.00	
11329.00†	90.000	359.513	9960.00	1494.93	1495.77	91.84	705148.83	516371.70	32°25'04.316"N	103°40'06.691"W	0.00	
11429.00†	90.000	359.513	9960.00	1594.93	1595.77	90.99	705147.98	516471.69	32°25'05.305"N	103°40'06.694"W	0.00	
11529.00†	90.000	359.513	9960.00	1694.93	1695.76	90.14	705147.13	516571.69	32°25'06.295"N	103°40'06.696"W	0.00	
11629.00†	90.000	359.513	9960.00	1794.93	1795.76	89.29	705146.28	516671.68	32°25'07.284"N	103°40'06.699"W	0.00	
11729.00†	90.000	359.513	9960.00	1894.93	1895.75	88.44	705145.43	516771.67	32°25'08.274"N	103°40'06.702"W	0.00	
11829.00†	90.000	359.513	9960.00	1994.93	1995.75	87.59	705144.58	516871.66	32°25'09.263"N	103°40'06.704"W	0.00	
11929.00†	90.000	359.513	9960.00	2094.93	2095.75	86.74	705143.73	516971.65	32°25'10.253"N	103°40'06.707"W	0.00	
12029.00†	90.000	359.513	9960.00	2194.93	2195.74	85.89	705142.88	517071.65	32°25'11.242"N	103°40'06.710"W	0.00	
12129.00†	90.000	359.513	9960.00	2294.93	2295.74	85.04	705142.03	517171.64	32°25'12.232"N	103°40'06.712"W	0.00	
12229.00†	90.000	359.513	9960.00	2394.93	2395.74	84.19	705141.19	517271.63	32°25'13.222"N	103°40'06.715"W	0.00	
12329.00†	90.000	359.513	9960.00	2494.93	2495.73	83.34	705140.34	517371.62	32°25'14.211"N	103°40'06.718"W	0.00	
12429.00†	90.000	359.513	9960.00	2594.93	2595.73	82.49	705139.49	517471.61	32°25'15.201"N	103°40'06.720"W	0.00	
12529.00†	90.000	359.513	9960.00	2694.93	2695.73	81.64	705138.64	517571.61	32°25'16.190"N	103°40'06.723"W	0.00	
12629.00†	90.000	359.513	9960.00	2794.93	2795.72	80.79	705137.79	517671.60	32°25'17.180"N	103°40'06.726"W	0.00	
12729.00†	90.000	359.513	9960.00	2894.93	2895.72	79.94	705136.94	517771.59	32°25'18.169"N	103°40'06.728"W	0.00	
12829.00†	90.000	359.513	9960.00	2994.93	2995.72	79.09	705136.09	517871.58	32°25'19.159"N	103°40'06.731"W	0.00	
12929.00†	90.000	359.513	9960.00	3094.93	3095.71	78.24	705135.24	517971.57	32°25'20.148"N	103°40'06.734"W	0.00	
13029.00†	90.000	359.513	9960.00	3194.93	3195.71	77.39	705134.39	518071.56	32°25'21.138"N	103°40'06.736"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (167 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13129.00†	90.000	359.513	9960.00	3294.93	3295.70	76.54	705133.54	518171.56	32°25'22.127"N	103°40'06.739"W	0.00	
13229.00†	90.000	359.513	9960.00	3394.93	3395.70	75.69	705132.69	518271.55	32°25'23.117"N	103°40'06.742"W	0.00	
13329.00†	90.000	359.513	9960.00	3494.93	3495.70	74.84	705131.84	518371.54	32°25'24.106"N	103°40'06.744"W	0.00	
13429.00†	90.000	359.513	9960.00	3594.93	3595.69	73.99	705130.99	518471.53	32°25'25.096"N	103°40'06.747"W	0.00	
13529.00†	90.000	359.513	9960.00	3694.93	3695.69	73.14	705130.14	518571.52	32°25'26.085"N	103°40'06.750"W	0.00	
13629.00†	90.000	359.513	9960.00	3794.93	3795.69	72.29	705129.29	518671.52	32°25'27.075"N	103°40'06.752"W	0.00	
13729.00†	90.000	359.513	9960.00	3894.93	3895.68	71.44	705128.44	518771.51	32°25'28.064"N	103°40'06.755"W	0.00	
13829.00†	90.000	359.513	9960.00	3994.93	3995.68	70.59	705127.59	518871.50	32°25'29.054"N	103°40'06.758"W	0.00	
13929.00†	90.000	359.513	9960.00	4094.93	4095.68	69.74	705126.74	518971.49	32°25'30.043"N	103°40'06.760"W	0.00	
14029.00†	90.000	359.513	9960.00	4194.93	4195.67	68.89	705125.89	519071.48	32°25'31.033"N	103°40'06.763"W	0.00	
14129.00†	90.000	359.513	9960.00	4294.93	4295.67	68.04	705125.04	519171.48	32°25'32.022"N	103°40'06.766"W	0.00	
14229.00†	90.000	359.513	9960.00	4394.93	4395.66	67.19	705124.19	519271.47	32°25'33.012"N	103°40'06.768"W	0.00	
14329.00†	90.000	359.513	9960.00	4494.93	4495.66	66.34	705123.34	519371.46	32°25'34.001"N	103°40'06.771"W	0.00	
14429.00†	90.000	359.513	9960.00	4594.93	4595.66	65.49	705122.49	519471.45	32°25'34.991"N	103°40'06.774"W	0.00	
14529.00†	90.000	359.513	9960.00	4694.93	4695.65	64.64	705121.64	519571.44	32°25'35.980"N	103°40'06.776"W	0.00	
14629.00†	90.000	359.513	9960.00	4794.93	4795.65	63.79	705120.79	519671.44	32°25'36.970"N	103°40'06.779"W	0.00	
14721.57	90.000	359.513	9960.00†	4887.50	4888.22	63.00	705120.00	519764.00	32°25'37.886"N	103°40'06.781"W	0.00	End of Tangent

HOLE & CASING SECTIONS - Ref Wellbore: Nina Cortell Fed Com No. 121H Ref Wellpath: Nina Cortell Fed Com No. 121H Rev A.0

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing	29.00	4906.29	4877.29	29.00	4900.00	0.00	0.00	-118.27	105.56



Planned Wellpath Report

Nina Cortell Fed Com No. 121H Rev A.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Nina Cortell 111H FTP rev 1		9960.00	181.01	103.00	705160.00	515057.00	32°24'51.306"N	103°40'06.656"W	point
Nina Cortell 111H LTP rev 1		9960.00	4798.21	63.00	705120.00	519674.00	32°25'36.995"N	103°40'06.788"W	point
1) Nina Cortell 111H PBHL rev 1	14721.57	9960.00	4888.22	63.00	705120.00	519764.00	32°25'37.886"N	103°40'06.781"W	point

SURVEY PROGRAM - Ref Wellbore: Nina Cortell Fed Com No. 121H Ref Wellpath: Nina Cortell Fed Com No. 121H Rev A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
29.00	2000.00	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 121H
2000.00	4900.00	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 121H
4900.00	9945.00	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 121H
9945.00	10180.00	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 121H
10180.00	14731.15	BHI NaviTrak (Standard)		Nina Cortell Fed Com No. 121H



Planned Wellpath Report

Nina Cortell Fed Com No. 121H Rev A.0

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 121H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 121H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 121H
Facility	Nina Cortell Fed Com Pad		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
449.00	0.000	138.250	449.00	Z (Dewey Lake (P))
780.00	0.000	138.250	780.00	Z (Rustler)
1425.00	0.000	138.250	1425.00	Z (Salado) (Top Salt)
3535.67	5.000	138.250	3533.00	Z (Castile (T))
4886.29	0.000	359.513	4880.00	Z (G30:CS14-CSB) (Base of Salt)
4986.29	0.000	359.513	4980.00	Z (G26: Bell Cyn.)
5960.29	0.000	359.513	5954.00	Z (G13: Cherry Cyn.)
6924.29	0.000	359.513	6918.00	Z (G7: Brushy Cyn.) Antelope Ridge
8922.29	0.000	359.513	8916.00	Z (G4: BSGL (CS9))
9651.53	26.400	359.513	9636.00	Z (L5.3: FBSC)
9887.29	49.977	359.513	9820.00	Z (L5.1: FBSC)

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
29.00	0.000	138.250	29.00	Tie On
2500.00	0.000	138.250	2500.00	End of Tangent
3000.00	5.000	138.250	2999.37	End of Build
4318.53	5.000	138.250	4312.88	End of Tangent
4818.53	0.000	359.513	4812.24	End of Drop
9387.53	0.000	359.513	9381.24	End of Tangent
10187.53	80.000	359.513	9945.49	End of Build
10354.19	90.000	359.513	9960.00	End of Build
14721.57	90.000	359.513	9960.00	End of Tangent

Name	Hole Size	Casing Size	Wt/Grade	Thread Collar	Setting Depth	Top Cement
Surface	17-1/2"	13-3/8" (new)	54.5# J-55	BTC	800 825'	Surface
Intermediate	12-1/4"	9-5/8" (new)	40# J-55	BTC	5000	Surface
Production Top	8-3/4"	5-1/2" (new)	20# T-95	Liberty TC or Like Premium Thread	10400	4800
Production Bottom	8-3/4"	5-1/2" (new)	17# P-110	BTC/DWC	14722	

Name	Type	Sacks	Yield	Weight	Blend
Surface	Lead	371	1.75	12.8	Class C + Bentonite + 2% CaCL ₂
	Tail	342	1.33	14.8	Class C
TOC = 0'		100% Excess		Centralizers per Onshore Order 2.III.B.1f	
Intermediate	Lead	1220	1.88	12.8	Class C + Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Tail	481	1.38	14.8	Class C + 5% NaCl + LCM
TOC = 0'		100% Excess		2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface	
Production	Lead	700	2.21	11.5	Class H + Fluid Loss + Dispersant + Retarder
	Tail	1355	1.35	13..2	Class H + Fluid Loss + Dispersant + Retarder
TOC = 4,800'		35% Excess		2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement	

Name	Hole Size	Mud Weight	Visc	Fluid Loss	Type Mud
Surface	17-1/2"	8.30	28	NC	FW Spud Mud
Intermediate	12-1/4"	10.00	30-32	NC	Brine Water
Production	8-3/4"	9.00	30-31	NC	FW/Cut Brine

Formation Name	TVD	Bearing
Quaternary Fill	0	Water
Dewey Lake	449	Water
Rustler	780	Water
Salado	1425	Barren
Castile	3533	Barren
Base of Salt	4880	Barren
Bell Canyon	4980	Hydrocarbons
Cherry Canyon	5954	Hydrocarbons
Brushy Canyon	6918	Hydrocarbons
Bone Spring Lime	8916	Hydrocarbons
1st Bone Spring Carbonate	9636	Hydrocarbons
1st Bone Spring Sand	9820	Hydrocarbons
2nd Bone Spring Carbonate	10274	Hydrocarbons
2nd Bone Spring Sand	10481	Hydrocarbons

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-44548		² Pool Code 5695		³ Pool Name Bilbrey Basin; BS	
⁴ Property Code 320841		⁵ Property Name NINA CORTELL FED COM			⁶ Well Number #121H
⁷ OGRID No. 228937		⁸ Operator Name MATADOR PRODUCTION COMPANY			⁹ Elevation 3806'

¹⁰Surface Location

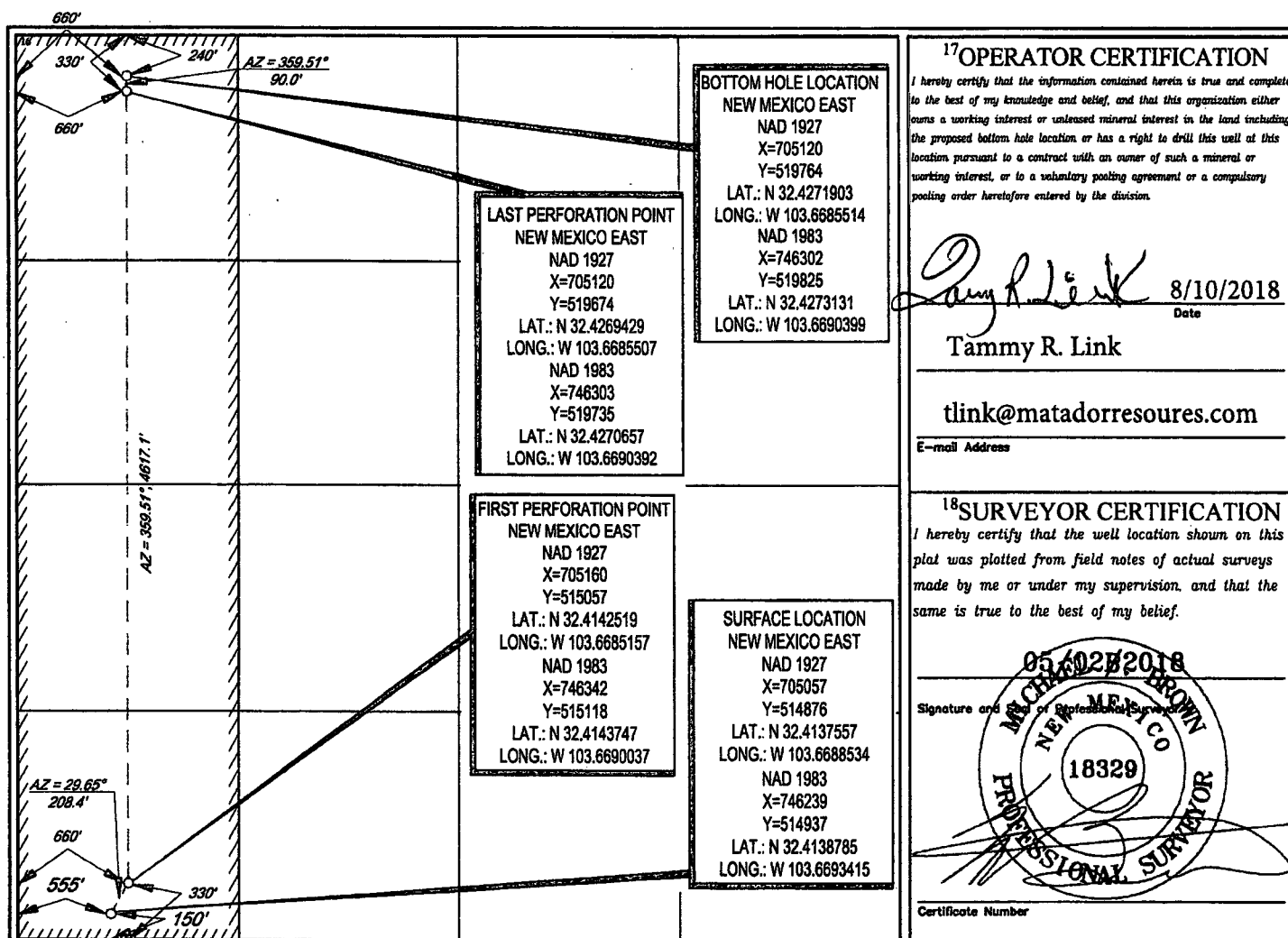
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	3	22-S	32-E	-	150'	SOUTH	555'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	3	22-S	32-E	-	240'	NORTH	660'	WEST	LEA

¹² Dedicated Acres 159.92	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



PECOS DISTRICT

DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Prod Co
LEASE NO.:	NM135247
WELL NAME & NO.:	121H-Nina Cortell Fed Com
SURFACE HOLE FOOTAGE:	150'/S & 555'/W
BOTTOM HOLE FOOTAGE:	240'/N & 660'/W
LOCATION:	Section 3, T. 22 S., R. 32 E.
COUNTY:	Lea County, New Mexico

Potash	☐ None	☒ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP

All previous COAs still apply except for the following:

A. CASING

1. The 13 3/8 inch surface casing shall be set at approximately **825** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

MHH 08162018

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Chaves and Roosevelt Counties
Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.