

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.***Carlsbad Field Office**
District, Serial No.
NMNM135247
Allottee, Allottee or Tribe Name**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	7. If Unit or CA/Agreement, Name and/or No.
2. Name of Operator MATADOR PRODUCTION COMPANY Contact: TAMMY R LINK E-Mail: tlink@matadorresources.com	8. Well Name and No. NINA CORTELL FED COM 201H
3a. Address 5400 LBJ FREEWAY SUITE 1500 DALLAS, TX 75240	9. API Well No. 30-025-44554-00-X1
3b. Phone No. (include area code) Ph: 575-627-2465	10. Field and Pool or Exploratory Area BILBREY BASIN-BONE SPRING
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 3 T22S R32E SWSW 150FSL 555FWL 32.413879 N Lat, 103.669342 W Lon	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	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 recompleat 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 of 7" Intermediate II to 7-5/8" x 7" Intermediate II. Matador requests a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing which will be less than the 0.422" stand off regulation. Matador has met with Christopher Walls and Mustafa Haque as well as other BLM representatives and determined that this would be acceptable as long as the 7-5/8" flush casing was run throughout the entire 300+ cement tie back section

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct. Electronic Submission #430165 verified by the BLM Well Information System For MATADOR PRODUCTION COMPANY, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 08/09/2018 (18PP1615SE)	
Name (Printed/Typed) TAMMY R LINK	Title PRODUCTION ANALYST
Signature (Electronic Submission)	Date 08/07/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>Mustafa Haque</u>	Title Petroleum Engineer Carlsbad Field Office	Date 08/13/2018
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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED *****KB*

Additional data for EC transaction #430165 that would not fit on the form

32. Additional remarks, continued

between 9-5/8" and 7-5/8" casing.

Please see attached table and spec sheet for change in Production casing from 4-1/2" casing to 5-1/2" x 4-1/2".

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

Please feel free to contact J.D. Harkrider with any questions at jharkrider@matadorresources.com or 972-371-2177.

Petra

*800' Rattle Pic
794'
755'*

T229 R32E S49W03

*(MKL)
8/13/18
13:57 hrs.*



Planned Wellpath Report

Nina Cortell Fed Com No. 201H Rev A.0

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 201H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 201H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 201H
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	27/Jul/2018 at 09:02
Convergence at slot	0.36° East	Database/Source file	WellArchitectDB/Nina_Cortell_Fed_Com_No_201H_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	-30.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"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: Patterson 297 (KB) to Facility Vertical Datum	3836.00ft
Horizontal Reference Pt	Slot	Rig: Patterson 297 (KB) to Mean Sea Level	3836.00ft
Vertical Reference Pt	Rig: Patterson 297 (KB)	Rig: Patterson 297 (KB) to Ground Level at Slot (Nina Cortell Fed Com No. 201H)	29.00ft
MD Reference Pt	Rig: Patterson 297 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.51°



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Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 201H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (193 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	240.233	0.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
29.00	0.000	240.233	29.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	Tie On
129.00†	0.000	240.233	129.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
229.00†	0.000	240.233	229.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
329.00†	0.000	240.233	329.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
409.00†	0.000	240.233	409.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	Z (Dewey Lake (P))
429.00†	0.000	240.233	429.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
529.00†	0.000	240.233	529.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
629.00†	0.000	240.233	629.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
729.00†	0.000	240.233	729.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
829.00†	0.000	240.233	829.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
929.00†	0.000	240.233	929.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
1018.00†	0.000	240.233	1018.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	Z (Rustler)
1029.00†	0.000	240.233	1029.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
1129.00†	0.000	240.233	1129.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
1229.00†	0.000	240.233	1229.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
1329.00†	0.000	240.233	1329.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
1385.00†	0.000	240.233	1385.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	Z (Salado) (Top Salt)
1429.00†	0.000	240.233	1429.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
1529.00†	0.000	240.233	1529.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
1629.00†	0.000	240.233	1629.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
1729.00†	0.000	240.233	1729.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
1829.00†	0.000	240.233	1829.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
1929.00†	0.000	240.233	1929.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
2029.00†	0.000	240.233	2029.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
2129.00†	0.000	240.233	2129.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
2229.00†	0.000	240.233	2229.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
2329.00†	0.000	240.233	2329.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
2429.00†	0.000	240.233	2429.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
2529.00†	0.000	240.233	2529.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
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Area	Lea County, NM	Well	Nina Cortell Fed Com No. 201H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 201H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (193 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
2629.00†	0.000	240.233	2629.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
2729.00†	0.000	240.233	2729.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
2829.00†	0.000	240.233	2829.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
2929.00†	0.000	240.233	2929.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
3029.00†	0.000	240.233	3029.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
3129.00†	0.000	240.233	3129.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
3229.00†	0.000	240.233	3229.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
3329.00†	0.000	240.233	3329.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
3429.00†	0.000	240.233	3429.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
3493.00†	0.000	240.233	3493.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	Z (Castile (T))
3529.00†	0.000	240.233	3529.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
3629.00†	0.000	240.233	3629.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
3729.00†	0.000	240.233	3729.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
3829.00†	0.000	240.233	3829.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
3929.00†	0.000	240.233	3929.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
4029.00†	0.000	240.233	4029.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
4129.00†	0.000	240.233	4129.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
4229.00†	0.000	240.233	4229.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
4329.00†	0.000	240.233	4329.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
4429.00†	0.000	240.233	4429.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
4529.00†	0.000	240.233	4529.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
4629.00†	0.000	240.233	4629.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
4729.00†	0.000	240.233	4729.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
4829.00†	0.000	240.233	4829.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
4861.00†	0.000	240.233	4861.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	Z (G30:CS14-CSB) (Base of Salt)
4929.00†	0.000	240.233	4929.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	
4940.00†	0.000	240.233	4940.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	Z (G26: Bell Cyn.)
5000.00	0.000	240.233	5000.00	0.00	0.00	0.00	705027.00	514876.00	32°24'49.523"N	103°40'08.221"W	0.00	End of Tangent
5029.00†	0.290	240.233	5029.00	-0.04	-0.04	-0.06	705026.94	514875.96	32°24'49.522"N	103°40'08.222"W	1.00	
5129.00†	1.290	240.233	5128.99	-0.71	-0.72	-1.26	705025.74	514875.28	32°24'49.516"N	103°40'08.236"W	1.00	



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Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (193 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
5229.00†	2.290	240.233	5228.94	-2.24	-2.27	-3.97	705023.03	514873.73	32°24'49.501"N	103°40'08.267"W	1.00	
5329.00†	3.290	240.233	5328.82	-4.62	-4.69	-8.20	705018.80	514871.31	32°24'49.477"N	103°40'08.317"W	1.00	
5429.00†	4.290	240.233	5428.60	-7.85	-7.97	-13.93	705013.07	514868.03	32°24'49.445"N	103°40'08.384"W	1.00	
5500.00	5.000	240.233	5499.37	-10.66	-10.82	-18.93	705008.07	514865.18	32°24'49.417"N	103°40'08.442"W	1.00	End of Build
5529.00†	5.000	240.233	5528.26	-11.90	-12.08	-21.12	705005.88	514863.92	32°24'49.405"N	103°40'08.468"W	0.00	
5629.00†	5.000	240.233	5627.87	-16.16	-16.41	-28.69	704998.32	514859.59	32°24'49.362"N	103°40'08.557"W	0.00	
5729.00†	5.000	240.233	5727.49	-20.42	-20.73	-36.25	704990.75	514855.27	32°24'49.320"N	103°40'08.645"W	0.00	
5829.00†	5.000	240.233	5827.11	-24.69	-25.06	-43.82	704983.19	514850.94	32°24'49.278"N	103°40'08.734"W	0.00	
5916.22†	5.000	240.233	5914.00	-28.40	-28.83	-50.42	704976.59	514847.17	32°24'49.241"N	103°40'08.811"W	0.00	Z (G13: Cherry Cyn.)
5929.00†	5.000	240.233	5926.73	-28.95	-29.39	-51.38	704975.62	514846.61	32°24'49.235"N	103°40'08.822"W	0.00	
6029.00†	5.000	240.233	6026.35	-33.21	-33.72	-58.95	704968.06	514842.29	32°24'49.193"N	103°40'08.911"W	0.00	
6129.00†	5.000	240.233	6125.97	-37.47	-38.04	-66.51	704960.49	514837.96	32°24'49.150"N	103°40'08.999"W	0.00	
6229.00†	5.000	240.233	6225.59	-41.73	-42.37	-74.08	704952.92	514833.63	32°24'49.108"N	103°40'09.088"W	0.00	
6329.00†	5.000	240.233	6325.21	-46.00	-46.70	-81.64	704945.36	514829.31	32°24'49.066"N	103°40'09.177"W	0.00	
6429.00†	5.000	240.233	6424.83	-50.26	-51.02	-89.21	704937.79	514824.98	32°24'49.023"N	103°40'09.265"W	0.00	
6529.00†	5.000	240.233	6524.45	-54.52	-55.35	-96.78	704930.23	514820.65	32°24'48.981"N	103°40'09.354"W	0.00	
6629.00†	5.000	240.233	6624.07	-58.78	-59.68	-104.34	704922.66	514816.33	32°24'48.939"N	103°40'09.442"W	0.00	
6729.00†	5.000	240.233	6723.69	-63.05	-64.00	-111.91	704915.10	514812.00	32°24'48.896"N	103°40'09.531"W	0.00	
6829.00†	5.000	240.233	6823.31	-67.31	-68.33	-119.47	704907.53	514807.67	32°24'48.854"N	103°40'09.619"W	0.00	
6883.90†	5.000	240.233	6878.00	-69.65	-70.71	-123.63	704903.38	514805.30	32°24'48.831"N	103°40'09.668"W	0.00	Z (G7: Brushy Cyn.) Antelope Ridge
6929.00†	5.000	240.233	6922.93	-71.57	-72.66	-127.04	704899.97	514803.34	32°24'48.812"N	103°40'09.708"W	0.00	
7029.00†	5.000	240.233	7022.55	-75.83	-76.99	-134.60	704892.40	514799.02	32°24'48.769"N	103°40'09.797"W	0.00	
7129.00†	5.000	240.233	7122.17	-80.09	-81.31	-142.17	704884.84	514794.69	32°24'48.727"N	103°40'09.885"W	0.00	
7229.00†	5.000	240.233	7221.79	-84.36	-85.64	-149.73	704877.27	514790.36	32°24'48.685"N	103°40'09.974"W	0.00	
7329.00†	5.000	240.233	7321.41	-88.62	-89.97	-157.30	704869.71	514786.04	32°24'48.642"N	103°40'10.062"W	0.00	
7429.00†	5.000	240.233	7421.03	-92.88	-94.29	-164.87	704862.14	514781.71	32°24'48.600"N	103°40'10.151"W	0.00	
7529.00†	5.000	240.233	7520.64	-97.14	-98.62	-172.43	704854.58	514777.38	32°24'48.558"N	103°40'10.239"W	0.00	
7571.09	5.000	240.233	7562.57	-98.94	-100.44	-175.61	704851.39	514775.56	32°24'48.540"N	103°40'10.277"W	0.00	End of Tangent
7629.00†	4.421	240.233	7620.29	-101.26	-102.80	-179.74	704847.26	514773.20	32°24'48.517"N	103°40'10.325"W	1.00	
7729.00†	3.421	240.233	7720.05	-104.61	-106.20	-185.68	704841.33	514769.81	32°24'48.483"N	103°40'10.394"W	1.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 201H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 201H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 201H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (193 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
7829.00†	2.421	240.233	7819.92	-107.10	-108.73	-190.10	704836.91	514767.28	32°24'48.459"N	103°40'10.446"W	1.00	
7929.00†	1.421	240.233	7919.86	-108.74	-110.39	-193.01	704834.00	514765.61	32°24'48.442"N	103°40'10.480"W	1.00	
8029.00†	0.421	240.233	8019.85	-109.52	-111.19	-194.41	704832.60	514764.81	32°24'48.435"N	103°40'10.497"W	1.00	
8071.09	0.000	359.513	8061.94	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	1.00	End of Drop
8129.00†	0.000	359.513	8119.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
8229.00†	0.000	359.513	8219.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
8329.00†	0.000	359.513	8319.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
8429.00†	0.000	359.513	8419.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
8529.00†	0.000	359.513	8519.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
8629.00†	0.000	359.513	8619.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
8729.00†	0.000	359.513	8719.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
8829.00†	0.000	359.513	8819.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
8885.15†	0.000	359.513	8876.00	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	Z (G4: BSGI (CS9))
8929.00†	0.000	359.513	8919.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
9029.00†	0.000	359.513	9019.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
9129.00†	0.000	359.513	9119.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
9229.00†	0.000	359.513	9219.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
9329.00†	0.000	359.513	9319.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
9429.00†	0.000	359.513	9419.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
9529.00†	0.000	359.513	9519.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
9605.15†	0.000	359.513	9596.00	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	Z (L5.3: FBSC)
9629.00†	0.000	359.513	9619.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
9729.00†	0.000	359.513	9719.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
9829.00†	0.000	359.513	9819.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
9929.00†	0.000	359.513	9919.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
9980.15†	0.000	359.513	9971.00	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	Z (L5.1: FBSC)
10029.00†	0.000	359.513	10019.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
10129.00†	0.000	359.513	10119.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
10229.00†	0.000	359.513	10219.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
10243.15†	0.000	359.513	10234.00	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	Z (L4.3: SBSC)



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 201H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 201H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 201H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (193 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
10329.00†	0.000	359.513	10319.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
10429.00†	0.000	359.513	10419.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
10490.15†	0.000	359.513	10481.00	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	Z (L4.1: SBSG)
10529.00†	0.000	359.513	10519.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
10629.00†	0.000	359.513	10619.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
10729.00†	0.000	359.513	10719.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
10829.00†	0.000	359.513	10819.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
10929.00†	0.000	359.513	10919.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
11029.00†	0.000	359.513	11019.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
11050.15†	0.000	359.513	11041.00	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	Z (L3.3: TBSC)
11129.00†	0.000	359.513	11119.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
11229.00†	0.000	359.513	11219.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
11329.00†	0.000	359.513	11319.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
11429.00†	0.000	359.513	11419.85	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	
11481.39	0.000	359.513	11472.24	-109.60	-111.27	-194.54	704832.47	514764.74	32°24'48.434"N	103°40'10.498"W	0.00	End of Tangent
11529.00†	4.761	359.513	11519.80	-107.62	-109.29	-194.56	704832.45	514766.71	32°24'48.453"N	103°40'10.498"W	10.00	
11602.04†	12.065	359.513	11592.00	-96.94	-98.61	-194.65	704832.36	514777.39	32°24'48.559"N	103°40'10.498"W	10.00	Z (L3.1: TBSC)
11629.00†	14.761	359.513	11618.22	-90.69	-92.36	-194.70	704832.31	514783.65	32°24'48.621"N	103°40'10.499"W	10.00	
11729.00†	24.761	359.513	11712.21	-56.92	-58.59	-194.99	704832.02	514817.41	32°24'48.955"N	103°40'10.500"W	10.00	
11829.00†	34.761	359.513	11798.91	-7.35	-9.02	-195.41	704831.60	514866.98	32°24'49.446"N	103°40'10.501"W	10.00	
11929.00†	44.761	359.513	11875.69	56.53	54.86	-195.95	704831.06	514930.85	32°24'50.078"N	103°40'10.503"W	10.00	
12029.00†	54.761	359.513	11940.20	132.77	131.09	-196.60	704830.41	515007.09	32°24'50.832"N	103°40'10.505"W	10.00	
12048.17†	56.678	359.513	11951.00	148.61	146.93	-196.74	704830.27	515022.92	32°24'50.989"N	103°40'10.505"W	10.00	Z (L2: WFMP A)
12129.00†	64.761	359.513	11990.50	219.05	217.37	-197.33	704829.67	515093.36	32°24'51.686"N	103°40'10.507"W	10.00	
12229.00†	74.761	359.513	12025.05	312.76	311.08	-198.13	704828.88	515187.06	32°24'52.613"N	103°40'10.509"W	10.00	
12281.39	80.000	359.513	12036.49	363.87	362.18	-198.56	704828.44	515238.16	32°24'53.119"N	103°40'10.511"W	10.00	End of Build
12329.00†	82.857	359.513	12043.59	410.94	409.25	-198.97	704828.04	515285.23	32°24'53.585"N	103°40'10.512"W	6.00	
12429.00†	88.857	359.513	12050.81	510.63	508.94	-199.81	704827.20	515384.92	32°24'54.571"N	103°40'10.515"W	6.00	
12448.06	90.000	359.513	12051.00	529.69	528.00	-199.97	704827.03	515403.97	32°24'54.760"N	103°40'10.515"W	6.00	End of Build
12529.00†	90.000	359.513	12051.00	610.63	608.94	-200.66	704826.35	515484.91	32°24'55.561"N	103°40'10.517"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 201H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 201H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 201H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (193 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
12629.00†	90.000	359.513	12051.00	710.63	708.93	-201.51	704825.50	515584.90	32°24'56.550"N	103°40'10.520"W	0.00	
12729.00†	90.000	359.513	12051.00	810.63	808.93	-202.36	704824.65	515684.89	32°24'57.540"N	103°40'10.523"W	0.00	
12829.00†	90.000	359.513	12051.00	910.63	908.93	-203.21	704823.80	515784.89	32°24'58.529"N	103°40'10.525"W	0.00	
12929.00†	90.000	359.513	12051.00	1010.63	1008.92	-204.06	704822.95	515884.88	32°24'59.519"N	103°40'10.528"W	0.00	
13029.00†	90.000	359.513	12051.00	1110.63	1108.92	-204.91	704822.10	515984.87	32°25'00.508"N	103°40'10.531"W	0.00	
13129.00†	90.000	359.513	12051.00	1210.63	1208.92	-205.76	704821.25	516084.86	32°25'01.498"N	103°40'10.533"W	0.00	
13229.00†	90.000	359.513	12051.00	1310.63	1308.91	-206.61	704820.40	516184.85	32°25'02.487"N	103°40'10.536"W	0.00	
13329.00†	90.000	359.513	12051.00	1410.63	1408.91	-207.46	704819.55	516284.85	32°25'03.477"N	103°40'10.539"W	0.00	
13429.00†	90.000	359.513	12051.00	1510.63	1508.90	-208.31	704818.70	516384.84	32°25'04.466"N	103°40'10.541"W	0.00	
13529.00†	90.000	359.513	12051.00	1610.63	1608.90	-209.16	704817.85	516484.83	32°25'05.456"N	103°40'10.544"W	0.00	
13629.00†	90.000	359.513	12051.00	1710.63	1708.90	-210.01	704817.00	516584.82	32°25'06.445"N	103°40'10.547"W	0.00	
13729.00†	90.000	359.513	12051.00	1810.63	1808.89	-210.86	704816.15	516684.81	32°25'07.435"N	103°40'10.549"W	0.00	
13829.00†	90.000	359.513	12051.00	1910.63	1908.89	-211.71	704815.30	516784.80	32°25'08.424"N	103°40'10.552"W	0.00	
13929.00†	90.000	359.513	12051.00	2010.63	2008.89	-212.56	704814.45	516884.80	32°25'09.414"N	103°40'10.555"W	0.00	
14029.00†	90.000	359.513	12051.00	2110.63	2108.88	-213.41	704813.60	516984.79	32°25'10.403"N	103°40'10.557"W	0.00	
14129.00†	90.000	359.513	12051.00	2210.63	2208.88	-214.26	704812.75	517084.78	32°25'11.393"N	103°40'10.560"W	0.00	
14229.00†	90.000	359.513	12051.00	2310.63	2308.88	-215.11	704811.90	517184.77	32°25'12.382"N	103°40'10.563"W	0.00	
14329.00†	90.000	359.513	12051.00	2410.63	2408.87	-215.96	704811.05	517284.76	32°25'13.372"N	103°40'10.565"W	0.00	
14429.00†	90.000	359.513	12051.00	2510.63	2508.87	-216.81	704810.20	517384.76	32°25'14.361"N	103°40'10.568"W	0.00	
14529.00†	90.000	359.513	12051.00	2610.63	2608.87	-217.66	704809.35	517484.75	32°25'15.351"N	103°40'10.571"W	0.00	
14629.00†	90.000	359.513	12051.00	2710.63	2708.86	-218.51	704808.50	517584.74	32°25'16.340"N	103°40'10.573"W	0.00	
14729.00†	90.000	359.513	12051.00	2810.63	2808.86	-219.36	704807.65	517684.73	32°25'17.330"N	103°40'10.576"W	0.00	
14829.00†	90.000	359.513	12051.00	2910.63	2908.85	-220.21	704806.80	517784.72	32°25'18.319"N	103°40'10.579"W	0.00	
14929.00†	90.000	359.513	12051.00	3010.63	3008.85	-221.06	704805.95	517884.72	32°25'19.309"N	103°40'10.581"W	0.00	
15029.00†	90.000	359.513	12051.00	3110.63	3108.85	-221.91	704805.10	517984.71	32°25'20.298"N	103°40'10.584"W	0.00	
15129.00†	90.000	359.513	12051.00	3210.63	3208.84	-222.76	704804.25	518084.70	32°25'21.288"N	103°40'10.587"W	0.00	
15229.00†	90.000	359.513	12051.00	3310.63	3308.84	-223.61	704803.40	518184.69	32°25'22.277"N	103°40'10.589"W	0.00	
15329.00†	90.000	359.513	12051.00	3410.63	3408.84	-224.46	704802.55	518284.68	32°25'23.267"N	103°40'10.592"W	0.00	
15429.00†	90.000	359.513	12051.00	3510.63	3508.83	-225.31	704801.70	518384.68	32°25'24.256"N	103°40'10.595"W	0.00	
15529.00†	90.000	359.513	12051.00	3610.63	3608.83	-226.16	704800.85	518484.67	32°25'25.246"N	103°40'10.597"W	0.00	



Planned Wellpath Report

Nina Cortell Fed Com No. 201H Rev A.0

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 201H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 201H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 201H
Facility	Nina Cortell Fed Com Pad		

WELLPATH DATA (193 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
15629.00†	90.000	359.513	12051.00	3710.63	3708.83	-227.01	704800.00	518584.66	32°25'26.235"N	103°40'10.600"W	0.00	
15729.00†	90.000	359.513	12051.00	3810.63	3808.82	-227.86	704799.15	518684.65	32°25'27.225"N	103°40'10.603"W	0.00	
15829.00†	90.000	359.513	12051.00	3910.63	3908.82	-228.71	704798.30	518784.64	32°25'28.214"N	103°40'10.605"W	0.00	
15929.00†	90.000	359.513	12051.00	4010.63	4008.81	-229.56	704797.45	518884.64	32°25'29.204"N	103°40'10.608"W	0.00	
16029.00†	90.000	359.513	12051.00	4110.63	4108.81	-230.41	704796.60	518984.63	32°25'30.194"N	103°40'10.611"W	0.00	
16129.00†	90.000	359.513	12051.00	4210.63	4208.81	-231.26	704795.75	519084.62	32°25'31.183"N	103°40'10.613"W	0.00	
16229.00†	90.000	359.513	12051.00	4310.63	4308.80	-232.11	704794.90	519184.61	32°25'32.173"N	103°40'10.616"W	0.00	
16329.00†	90.000	359.513	12051.00	4410.63	4408.80	-232.96	704794.05	519284.60	32°25'33.162"N	103°40'10.619"W	0.00	
16429.00†	90.000	359.513	12051.00	4510.63	4508.80	-233.81	704793.20	519384.59	32°25'34.152"N	103°40'10.621"W	0.00	
16529.00†	90.000	359.513	12051.00	4610.63	4608.79	-234.66	704792.35	519484.59	32°25'35.141"N	103°40'10.624"W	0.00	
16629.00†	90.000	359.513	12051.00	4710.63	4708.79	-235.51	704791.50	519584.58	32°25'36.131"N	103°40'10.627"W	0.00	
16729.00†	90.000	359.513	12051.00	4810.63	4808.79	-236.36	704790.65	519684.57	32°25'37.120"N	103°40'10.630"W	0.00	
16805.44	90.000	359.513	12051.00†	4887.07	4885.22	-237.01	704790.00	519761.00	32°25'37.876"N	103°40'10.632"W	0.00	End of Tangent

HOLE & CASING SECTIONS - Ref Wellbore: Nina Cortell Fed Com No. 201H Ref 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	4900.00	4871.00	29.00	4900.00	0.00	0.00	0.00	0.00



Planned Wellpath Report

Nina Cortell Fed Com No. 201H Rev A.0

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 201H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 201H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 201H
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 201H FTP rev 1		12051.00	178.01	-197.01	704830.00	515054.00	32°24'51.296"N	103°40'10.506"W	point
Nina Cortell 201H LTP rev 1		12051.00	4795.21	-237.01	704790.00	519671.00	32°25'36.986"N	103°40'10.638"W	point
1) Nina Cortell 201H PBHL rev 1	16805.44	12051.00	4885.22	-237.01	704790.00	519761.00	32°25'37.876"N	103°40'10.632"W	point

SURVEY PROGRAM - Ref Wellbore: Nina Cortell Fed Com No. 201H					Ref 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	



Planned Wellpath Report

Nina Cortell Fed Com No. 201H Rev A.0
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Nina Cortell Fed Com No. 201H
Area	Lea County, NM	Well	Nina Cortell Fed Com No. 201H
Field	Lea County, NM NAD27	Wellbore	Nina Cortell Fed Com No. 201H
Facility	Nina Cortell Fed Com Pad		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
409.00	0.000	240.233	409.00	Z (Dewey Lake (P))
1018.00	0.000	240.233	1018.00	Z (Rustler)
1385.00	0.000	240.233	1385.00	Z (Salado) (Top Salt)
3493.00	0.000	240.233	3493.00	Z (Castile (T))
4861.00	0.000	240.233	4861.00	Z (G30:CS14-CSB) (Base of Salt)
4940.00	0.000	240.233	4940.00	Z (G26: Bell Cyn.)
5916.22	5.000	240.233	5914.00	Z (G13: Cherry Cyn.)
6883.90	5.000	240.233	6878.00	Z (G7: Brushy Cyn.) Antelope Ridge
8885.15	0.000	359.513	8876.00	Z (G4: BSGI (CS9))
9605.15	0.000	359.513	9596.00	Z (L5.3: FBSC)
9980.15	0.000	359.513	9971.00	Z (L5.1: FBSC)
10243.15	0.000	359.513	10234.00	Z (L4.3: SBSC)
10490.15	0.000	359.513	10481.00	Z (L4.1: SBSC)
11050.15	0.000	359.513	11041.00	Z (L3.3: TBSC)
11602.04	12.065	359.513	11592.00	Z (L3.1: TBSC)
12048.17	56.678	359.513	11951.00	Z (L2: WFMP A)

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
29.00	0.000	240.233	29.00	Tie On
5000.00	0.000	240.233	5000.00	End of Tangent
5500.00	5.000	240.233	5499.37	End of Build
7571.09	5.000	240.233	7562.57	End of Tangent
8071.09	0.000	359.513	8061.94	End of Drop
11481.39	0.000	359.513	11472.24	End of Tangent
12281.39	80.000	359.513	12036.49	End of Build

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
12448.06	90.000	359.513	12051.00	End of Build
16805.44	90.000	359.513	12051.00	End of Tangent

SEE COA

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	800 925	Surface
Intermediate	12-1/4"	9-5/8" (new)	40# J-55	BTC	5000	Surface
Intermediate 2 Top	8-3/4"	7-5/8" (new)	29.7# P-110	BTC	4700 4500	4500
Intermediate 2 Middle	8-3/4"	7-5/8" (new)	29.7# P-110	VAM HTF-NR	11500	
Intermediate 2 Bottom	8-3/4"	7" (new)	29# P-110	BTC	12280	
Production Top	6-1/8"	5-1/2" (new)	20# P-110	BTC/TXP	11400	11780
Production Bottom	6-1/8"	4-1/2" (new)	13.5# P-110	BTC/TXP	16805	

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	
Intermediate 2	Lead	410	2.21	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
	Tail	156	1.37	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM
TOC = 4500'		35% Excess		2 on btm jt, 1 on 2nd jt, 1 every 4th jt to top of cement	
Production	Tail	449	1.17	15.8	Class H + Fluid Loss + Dispersant + Retarder + LCM
TOC = 11,780'		10% Excess		2 on btm jt, 1 on 2nd jt, 1 every other jt to top of curve	

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
Intermediate 2	8-3/4"	9.00	30-31	NC	FW/Cut Brine
Production	6-1/8"	12.00	50-60	<10	OBM

Formation Name	TVD	Bearing
Quaternary Fill	0	Water
Dewey Lake	409	Water
Rustler	775	Water
Salado	1385	Barren
Castile	3493	Barren
Base of Salt	4861	Barren
Bell Canyon	4940	Hydrocarbons
Cherry Canyon	5914	Hydrocarbons
Brushy Canyon	6878	Hydrocarbons
Bone Spring Lime	8876	Hydrocarbons
1st Bone Spring Carbonate	9596	Hydrocarbons
1st Bone Spring Sand	9971	Hydrocarbons
2nd Bone Spring Carbonate	10234	Hydrocarbons
2nd Bone Spring Sand	10481	Hydrocarbons
3rd Bone Spring Carbonate	11041	Hydrocarbons
3rd Bone Spring Sand	11592	Hydrocarbons
Wolfcamp A	11951	Hydrocarbons
Wolfcamp B	12224	Hydrocarbons
Strawn	13416	Hydrocarbons



Matador Resources

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Location: Lea County, NM
Field: Lea County, NM NAD27
Facility: Nina Cortell Fed Com Pad

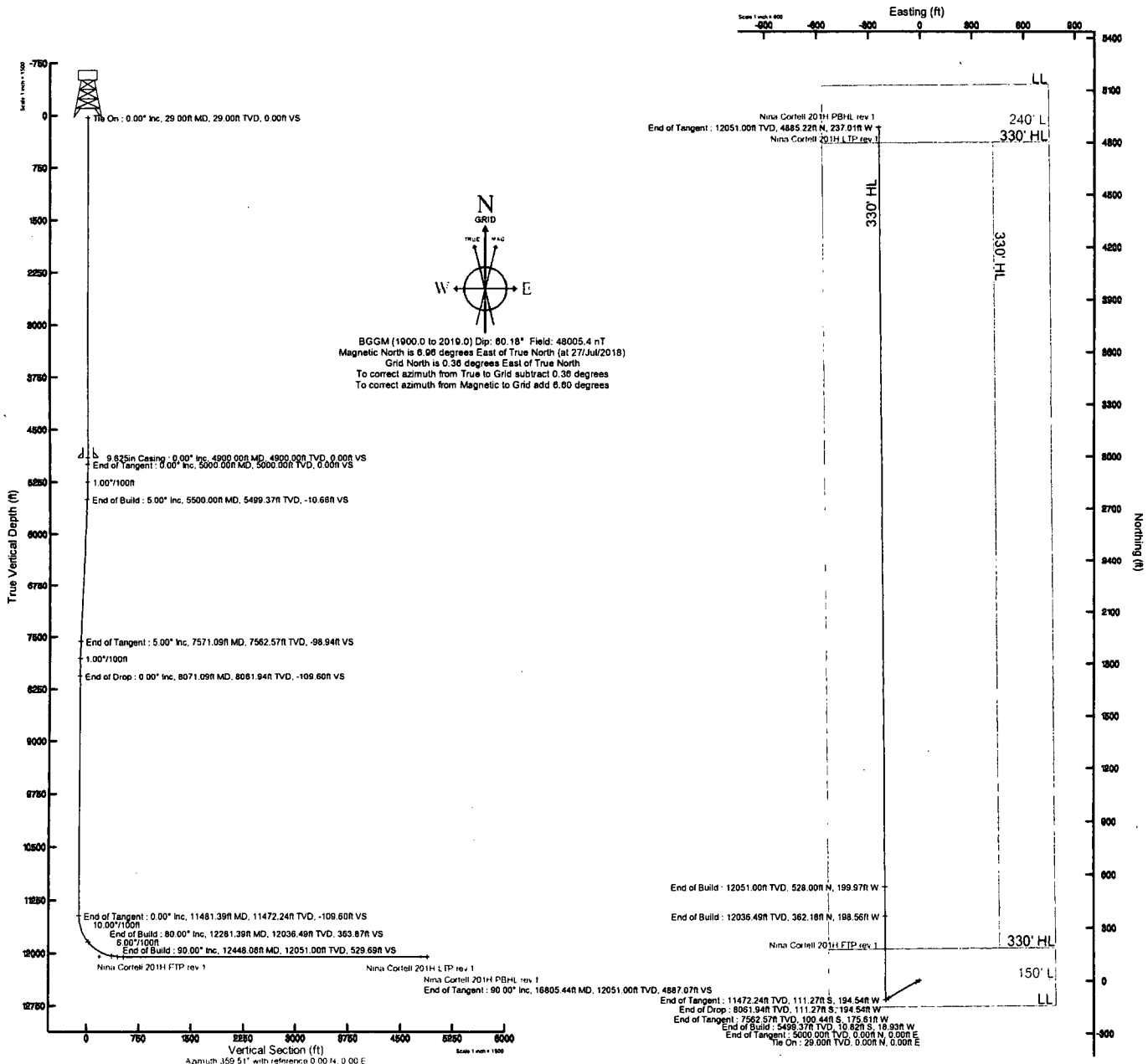
Slot: Nina Cortell Fed Com No. 201H
Well: Nina Cortell Fed Com No. 201H
Wellbore: Nina Cortell Fed Com No. 201H

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	OLS (°/100ft)	VS (ft)
Tie On	29.00	0.000	240.233	29.00	0.00	0.00	0.00	0.00
End of Tangent	5000.00	0.000	240.233	5000.00	0.00	0.00	0.00	0.00
End of Build	5500.00	5.000	240.233	5499.37	-10.82	-18.93	1.00	-10.88
End of Tangent	7571.09	5.000	240.233	7562.57	-100.44	-175.61	0.00	-98.94
End of Drop	8071.09	0.000	359.513	8061.94	-111.27	-194.54	1.00	-109.80
End of Tangent	11481.39	0.000	359.513	11472.24	-111.27	-194.54	0.00	-109.80
End of Build	12281.39	80.000	359.513	12036.49	382.18	-198.56	10.00	363.87
End of Build	12448.08	90.000	359.513	12051.00	528.00	-199.97	5.00	529.89
End of Tangent	16805.44	90.000	359.513	12051.00	4885.22	-237.01	0.00	4887.07

Bottom Hole Location								
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
16805.44	90.000	359.513	12051.00	4885.22	-237.01	704790.00	519761.00	32°25'37.876"N

Plot reference wellpath is Nina Cortell Fed Com No. 201H Rev A.0					Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet			
True vertical depths are referenced to Rig: Patterson 297 (KB)					North Reference: Grid north			
Measured depths are referenced to Rig: Patterson 297 (KB)					Scale: True distance			
Rig: Patterson 297 (KB) to Mean Sea Level: 3836 feet					Depths are in feet			
Mean Sea Level to Ground level (At Slot: Nina Cortell Fed Com No. 201H): -3807 feet					Created by: bulduyn on 2018-07-27			
Coordinates are in feet referenced to Slot					Database: WellArchitectDB			

Location Information				
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude
Nina Cortell Fed Com Pad		705027.000	514876.000	32°24'49.521"N
Slot		Local N (ft)	Local E (ft)	Longitude
Nina Cortell Fed Com No. 201H		0.00	-30.00	103°40'07.871"W
Rig: Patterson 297 (KB) to Ground level (At Slot: Nina Cortell Fed Com No. 201H)		Grid East (US ft)	Grid North (US ft)	Latitude
Mean Sea Level to Ground level (At Slot: Nina Cortell Fed Com No. 201H)		705027.000	514876.000	32°24'49.523"N
Rig: Patterson 297 (KB) to Mean Sea Level				103°40'08.221"W



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

April 19 2016



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 %

PIPE BODY DATA			
GEOMETRY			
Nominal OD	4.500 in.	Nominal Weight	13.50 lbs/ft
Nominal ID	3.920 in.	Wall Thickness	0.290 in.
Plain End Weight	13.05 lbs/ft	Standard Drift Diameter	3.795 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	479 x 1000 lbs	Internal Yield	14100 psi
Collapse	11620 psi	SMYS	125000 psi
TENARISXP® BTC CONNECTION DATA			
GEOMETRY			
Connection OD	5.000 in.	Coupling Length	9.075 in.
Critical Section Area	3.836 sq. in.	Threads per in.	5.00
		Connection ID	3.908 in.
		Make-Up Loss	4.016 in.
PERFORMANCE			
Tension Efficiency	100 %	Joint Yield Strength	479 x 1000 lbs
Structural Compression Efficiency	100 %	Structural Compression Strength	479 x 1000 lbs
External Pressure Capacity	11620 psi	Internal Pressure Capacity ⁽¹⁾	14100 psi
		Structural Bending ⁽²⁾	127 °/100 ft
ESTIMATED MAKE-UP TORQUES ⁽³⁾			
Minimum	6950 ft-lbs	Optimum	7720 ft-lbs
		Maximum	8490 ft-lbs
OPERATIONAL LIMIT TORQUES			
Operating Torque	10500 ft-lbs	Yield Torque	12200 ft-lbs

BLANKING DIMENSIONSBlanking Dimensions

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

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

(3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at licensees@oilfield.tenaris.com. Torque values may be further reviewed.

For additional information, please contact us at contact-tenarishydril@tenaris.com

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

July 15 2015



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

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

PIPE BODY DATA			
GEOMETRY			
Nominal OD	5.500 in.	Nominal Weight	20.00 lbs/ft
Nominal ID	4.778 in.	Wall Thickness	0.361 in.
Plain End Weight	19.83 lbs/ft	Standard Drift Diameter	4.653 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	641 x 1000 lbs	Internal Yield	12630 psi
Collapse	12100 psi	SMYS	110000 psi
TENARISXP™ BTC CONNECTION DATA			
GEOMETRY			
Connection OD	6.100 in.	Coupling Length	9.450 in.
Critical Section Area	5.828 sq. in.	Threads per in.	5.00
		Connection ID	4.766 in.
		Make-Up Loss	4.204 in.
PERFORMANCE			
Tension Efficiency	100 %	Joint Yield Strength	641 x 1000 lbs
Structural Compression Efficiency	100 %	Structural Compression Strength	641 x 1000 lbs
External Pressure Capacity	12100 psi	Internal Pressure Capacity ⁽¹⁾	12630 psi
		Structural Bending ⁽²⁾	92 °/100 ft
ESTIMATED MAKE-UP TORQUES ⁽³⁾			
Minimum	11270 ft-lbs	Optimum	12520 ft-lbs
		Maximum	13770 ft-lbs
OPERATIONAL LIMIT TORQUES			
Operating Torque	21500 ft-lbs	Yield Torque	23900 ft-lbs

BLANKING DIMENSIONS

Blanking Dimensions

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

**DATA ARE INFORMATIVE ONLY.
BASED ON SI_PD-101836 P&B**

VAM® HTF-NR™
Connection Data Sheet

OD	Weight	Wall Th.	Grade	API Drift	Connection
7 5/8 in.	29.70 lb/ft	0.375 in.	P110 EC	6.750 in.	VAM® HTF NR

PIPE PROPERTIES	
Nominal OD	7.625 in.
Nominal ID	6.875 in.
Nominal Cross Section Area	8.541 sqin.
Grade Type	Enhanced API
Min. Yield Strength	125 ksi
Max. Yield Strength	140 ksi
Min. Ultimate Tensile Strength	135 ksi
Tensile Yield Strength	1 068 klb
Internal Yield Pressure	10 760 psi
Collapse pressure	7 360 psi

CONNECTION PROPERTIES	
Connection Type	Premium Integral Flush
Connection OD (nom)	7.701 in.
Connection ID (nom)	6.782 in.
Make-Up Loss	4.657 in.
Critical Cross Section	4.971 sqin.
Tension Efficiency	58 % of pipe
Compression Efficiency	72.7 % of pipe
Compression Efficiency with Sealability	34.8 % of pipe
Internal Pressure Efficiency	100 % of pipe
External Pressure Efficiency	100 % of pipe

CONNECTION PERFORMANCES	
Tensile Yield Strength	619 klb
Compression Resistance	778 klb
Compression with Sealability	372 klb
Internal Yield Pressure	10 760 psi
External Pressure Resistance	7 360 psi
Max. Bending	44 °/100ft
Max. Bending with Sealability	17 °/100ft

TORQUE VALUES	
Min. Make-up torque	9 600 ft.lb
Opti. Make-up torque	11 300 ft.lb
Max. Make-up torque	13 000 ft.lb
Max. Torque with Sealability	58 500 ft.lb
Max. Torsional Value	73 000 ft.lb

VAM® HTF™ (High Torque Flush) is a flush OD integral connection providing maximum clearance along with torque strength for challenging applications such as extended reach and slim hole wells, drilling liner / casing, liner rotation to achieve better cementation in highly deviated and critical High Pressure / High Temperature wells.

Looking ahead on the outcoming testing industry standards, VAM® decided to create an upgraded design and launch on the market the VAM® HTF-NR as the new standard version of VAM® extreme high torque flush connection. The VAM® HTF-NR has extensive tests as per API RP 5C5:2015 CAL II which include the gas sealability having load points with bending, internal pressure and high temperature at 135°C.

Do you need help on this product? Remember no one knows VAM® like VAM®

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Over 180 VAM® Specialists available worldwide 24/7 for Rig Site Assistance

Other Connection Data Sheets are available at www.vamservices.com

Vallourec Group



PECOS DISTRICT

DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Prod Co
LEASE NO.:	NM135247
WELL NAME & NO.:	201H-Nina Cortell Fed Com
SURFACE HOLE FOOTAGE:	150'/S & 555'/W
BOTTOM HOLE FOOTAGE:	240'/N & 990'/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

A. Hydrogen Sulfide

1. Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 9 5/8 inch first intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Potash.
3. The minimum required fill of cement behind the 7 5/8 X 7 inch second intermediate casing is:
 - Cement should tie-back at least **500** feet into previous casing string. Operator shall provide method of verification.
4. The minimum required fill of cement behind the 5 1/2 X 4 1/2 inch production casing is:
 - Cement as proposed. Operator shall provide method of verification.

MHH 08132018

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.