District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
Matador Production Company One Lincoln Centre, 5400 LBJ Freeway, Ste 1500 Dallas, TX 75240	228937
	[3] Reason for Filing Code/ Effective Date NW

[4] API Number	[5] Pool Name	[6] Pool Code
30-025-50845	JAL; WOLFCAMP, WEST	33813
[7] Property Code	**[8] Property Name**	**[9] Well Number**
333587	UNCLE RICHARD STATE COM	213H

II. [10] Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
O	32	24S	36E		322	SOUTH	1486	EAST	Lea

[11] Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	29	24S	36E		211	NORTH	2009	EAST	Lea

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
214984	PLAINS MARKETING, L.P. 17304 Preston Rd, Suite 140 Dallas, TX 75252	O
330718	PINON MIDSTREAM LLC 465 E NM Highway 128 Jal, NM 88252	G

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
1/05/2023	6/23/2023	21,383’	21,338’	11,445’-21,144’	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
17.5”	13.375”	1,671’	1385
12.25”	10.75”	6,111’	1175
9.875”	7.625”	10,603’	2010
6.75”	5.5”	21,370’	1325

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
6/24/2023	6/24/2023	7/11/2023	24 hours	-	400
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
106/128	1000	3675	787		F

[42] I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: Eileen M Kosakowski

Printed name: Eileen M Kosakowski

Title: Regulatory Analyst

E-mail Address: eileen.kosakowski@matadorresources.com

Date: 9/11/2023

Phone: 832-672-4604

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

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

AS DRILLED

[1]API Number	[2]Pool Code	[3]Pool Name
30-025-50845	33813	JAL; WOLFCAMP, WEST

[4]Property Code	[5]Property Name	[6]Well Number
333587	UNCLE RICHARD STATE COM	213H

[7]OGRID No.	[8]Operator Name	[9]Elevation
228937	MATADOR PRODUCTION COMPANY	3256'

[10]Surface Location

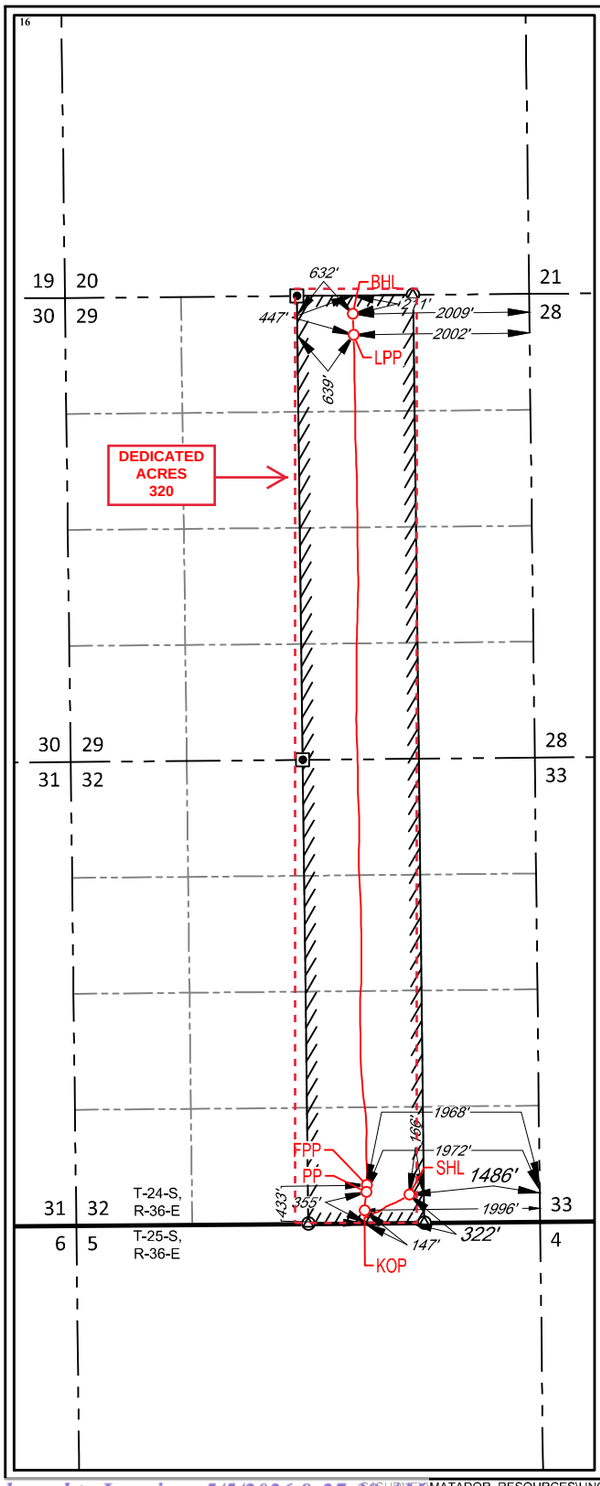
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	32	24-S	36-E	–	322'	SOUTH	1486'	EAST	LEA

[11]Bottom 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
B	29	24-S	36-E	–	211'	NORTH	2009'	EAST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
320		C	

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.



NEW MEXICO EAST
NAD 1983

SURFACE LOCATION (SHL)
322' FSL - SEC. 32
1486' FEL - SEC. 32
X=866266 Y=426279
LAT.: N 32.1675613
LONG.: W 103.2832488

KICK OFF POINT (KOP)
147' FSL - SEC. 32
1996' FEL - SEC. 32
X=865758 Y=426100
LAT.: N 32.1670836
LONG.: W 103.2848964
MD=10903' TVD=10870'

PENETRATION POINT (PP)
355' FSL - SEC. 32
1972' FEL - SEC. 32
X=865778 Y=426308
LAT.: N 32.1676541
LONG.: W 103.2848225
MD=11353' TVD=11256'

FIRST PERFORATION POINT (FPP)
433' FSL - SEC. 32
1968' FEL - SEC. 32
X=865782 Y=426386
LAT.: N 32.1678691
LONG.: W 103.2848081
MD=11445' TVD=11303'

LAST PERFORATION POINT (LPP)
447' FNL - SEC. 29
2002' FEL - SEC. 29
X=865633 Y=436066
LAT.: N 32.1944783
LONG.: W 103.2849857
MD=21144' TVD=11101'

BOTTOM HOLE LOCATION (BHL)
211' FNL - SEC. 29
2009' FEL - SEC. 29
X=865623 Y=436302
LAT.: N 32.1951269
LONG.: W 103.2850109
MD=21383' TVD=11083'

[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Eileen M Kosakowski 8/2/2023
Signature Date

Eileen M Kosakowski
Printed Name

eileen.kosakowski@matadorresources.com
E-mail Address

[18]SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

04/05/2023
Date of Survey
Signature and Seal of Professional Surveyor



Certificate Number

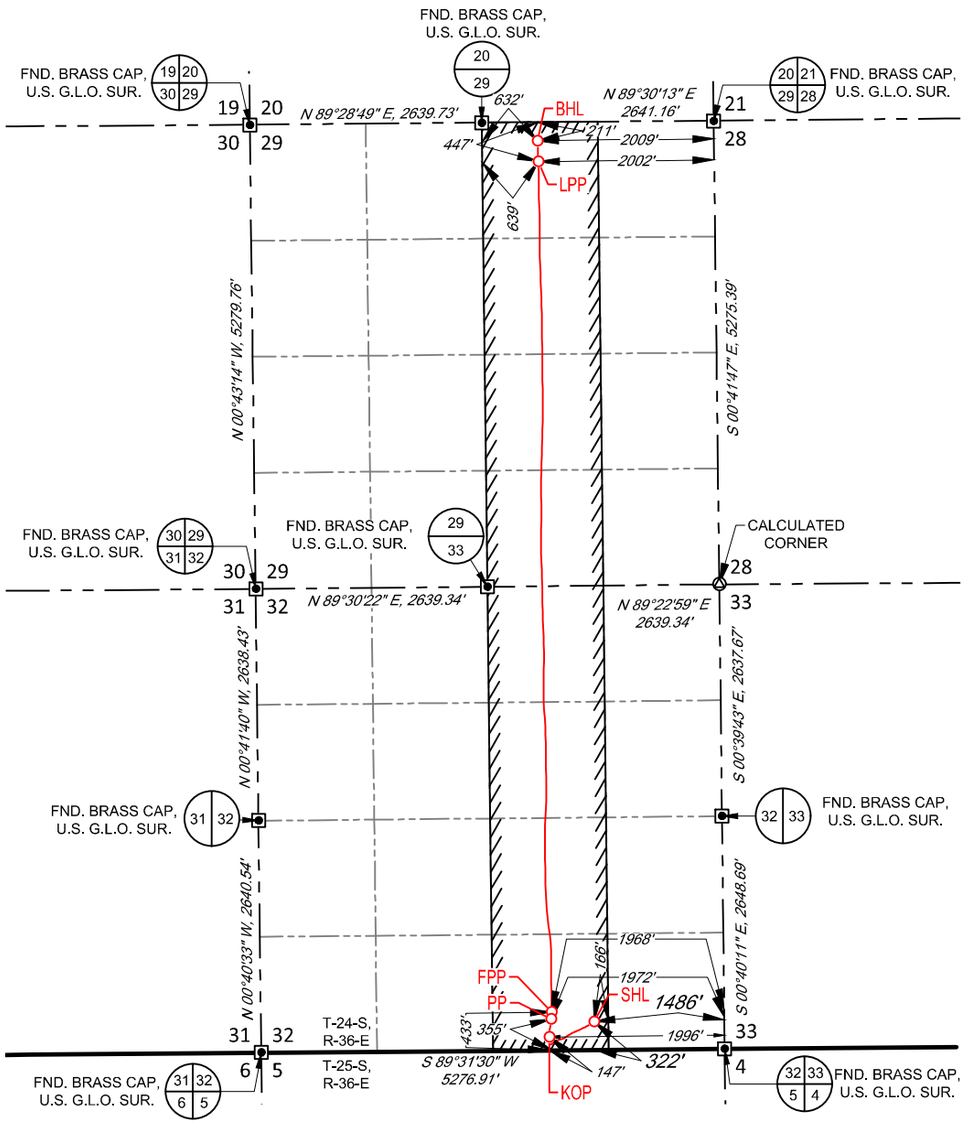
NEW MEXICO EAST
NAD 1927

SURFACE LOCATION (SHL)	KICK OFF POINT (KOP)
X=825079 Y=426220 LAT.: N 32.1674343 LONG.: W 103.2827854	X=824571 Y=426041 LAT.: N 32.1669566 LONG.: W 103.2844330
PENETRATION POINT (PP)	**FIRST PERFORATION POINT (FPP)**
X=824592 Y=426249 LAT.: N 32.1675272 LONG.: W 103.2843591	X=824595 Y=426328 LAT.: N 32.1677422 LONG.: W 103.2843447
LAST PERFORATION POINT (LPP)	**BOTTOM HOLE LOCATION (BHL)**
X=824447 Y=436007 LAT.: N 32.1943515 LONG.: W 103.2845205	X=824436 Y=436243 LAT.: N 32.1950001 LONG.: W 103.2845462

I:\SURVEY\MATADOR_RESOURCES\UNCLE_RICHARD_STATE_COM\FINAL_PRODUCTS\AD_UNCLE_RICHARD_STATE_COM_213H.DWG 8/1/2023 12:49:22 PM juliana.franklin

Matador PRODUCTION COMPANY

SECTION 32, TOWNSHIP 24-S, RANGE 36-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



NEW MEXICO EAST
NAD 1983

SURFACE LOCATION (SHL)
322' FSL - SEC. 32
1486' FEL - SEC. 32
X=866266 Y=426279
LAT.: N 32.1675613
LONG.: W 103.2832488

KICK OFF POINT (KOP)
147' FSL - SEC. 32
1996' FEL - SEC. 32
X=865758 Y=426100
LAT.: N 32.1670836
LONG.: W 103.2848964
MD=10903' TVD=10870'

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211' FNL - SEC. 29
2009' FEL - SEC. 29
X=865623 Y=436302
LAT.: N 32.1951269
LONG.: W 103.2850109
MD=21383' TVD=11083'

LEASE NAME & WELL NO.: UNCLE RICHARD STATE COM 213H
SECTION 32 TWP 24-S RGE 36-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3256'
DESCRIPTION 322' FSL & 1486' FEL

SCALE: 1" = 2000'
0' 1000' 2000'

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

Angel M. Baeza, P.S. No. 25116
July 27, 2023

UNCLE RICHARD STATE COM 213H AS-COMPLETED	REVISION: INT	DATE
DATE: 07/27/23		
FILE: AD_UNCLE_RICHARD_STATE_COM_213H		
DRAWN BY: MML		
SHEET : 2 OF 2		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

S:\SURVEY\MATADOR_RESOURCES\UNCLE_RICHARD_STATE_COM\FINAL_PRODUCTS\AD_UNCLE_RICHARD_STATE_COM_213H.DWG 8/1/2023 12:49:24 PM juliana.franklin

Matador Resources

Lea County, NM (NAD 27 NM E 3001)
Uncle Richard State Com Pad
Uncle Richard State Com 213H

ST01

Design: ST01

Standard Survey Report

21 March, 2023

Released to Imaging: 5/5/2026 9:27:39 AM
Received by OCD: 9/11/2023 7:45:31 AM

Project: Lea County, NM (NAD 27 NM E 30
Site: Uncle Richard State Com Pad
Well: Uncle Richard State Com 213H
Wellbore: ST01
Design: ST01
Lat: 32.167433
Long: -103.282786
GL: 3265.30

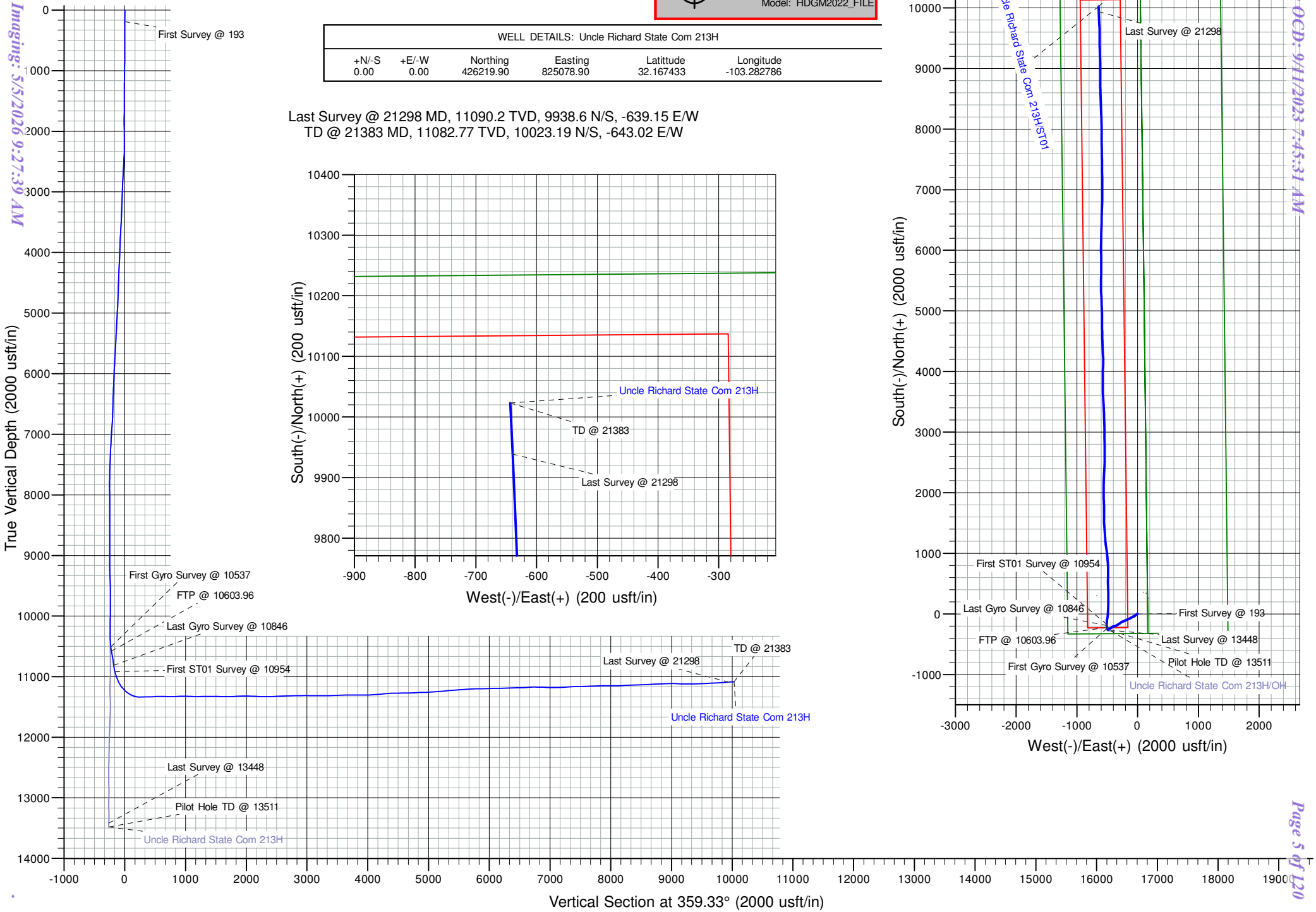
Azimuths to Grid North
True North: -0.56°
Magnetic North: 5.74°

Magnetic Field
Strength: 47469.9nT
Dip Angle: 59.68°
Date: 12/20/2022
Model: HDGM2022_FILE

WELL DETAILS: Uncle Richard State Com 213H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	426219.90	825078.90	32.167433	-103.282786

Last Survey @ 21298 MD, 11090.2 TVD, 9938.6 N/S, -639.15 E/W
TD @ 21383 MD, 11082.77 TVD, 10023.19 N/S, -643.02 E/W



Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Uncle Richard State Com 213H
Project:	Lea County, NM (NAD 27 NM E 3001)	**TVD Reference:**	Patt 256 @ 3293.80usft
Site:	Uncle Richard State Com Pad	**MD Reference:**	Patt 256 @ 3293.80usft
Well:	Uncle Richard State Com 213H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	FHartmann

Project Lea County, NM (NAD 27 NM E 3001)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Uncle Richard State Com Pad

Site Position:		**Northing:**	426,219.90 usft	**Latitude:**	32.167433
From:	Map	**Easting:**	825,078.90 usft	**Longitude:**	-103.282786
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Uncle Richard State Com 213H

Well Position	**+N/-S**	0.00 usft	**Northing:**	426,219.90 usft	**Latitude:**	32.167433
	+E/-W	0.00 usft	**Easting:**	825,078.90 usft	**Longitude:**	-103.282786
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,265.30 usft
Grid Convergence:		0.56 °				

Wellbore ST01

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022_FILE	12/20/2022	6.30	59.68	47,469.90000000

Design ST01

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	10,400.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.33

Survey Program **Date** 3/21/2023

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
193.00	10,400.00	MWD (OH)	MWD+HDGM	OWSG MWD + HRGM
10,537.00	10,846.00	Gyro (ST01)	GYD_CT+WIR	Gyrodata Continuous Tool including GyroCompass adj
10,846.00	21,383.00	ST01 MWD (ST01)	MWD+HDGM	OWSG MWD + HRGM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
193.00	0.66	256.80	193.00	-0.25	-1.08	-0.24	0.34	0.34	0.00
224.00	0.54	253.34	223.99	-0.34	-1.40	-0.32	0.40	-0.39	-11.16
314.00	0.60	260.01	313.99	-0.54	-2.27	-0.51	0.10	0.07	7.41
405.00	0.83	239.82	404.98	-0.95	-3.31	-0.92	0.37	0.25	-22.19
484.00	0.95	249.88	483.97	-1.47	-4.41	-1.42	0.25	0.15	12.73
576.00	1.08	249.22	575.96	-2.04	-5.94	-1.97	0.14	0.14	-0.72
666.00	0.87	248.12	665.95	-2.59	-7.37	-2.51	0.23	-0.23	-1.22

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Uncle Richard State Com 213H
Project:	Lea County, NM (NAD 27 NM E 3001)	**TVD Reference:**	Patt 256 @ 3293.80usft
Site:	Uncle Richard State Com Pad	**MD Reference:**	Patt 256 @ 3293.80usft
Well:	Uncle Richard State Com 213H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	FHartmann

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
757.00	0.66	233.87	756.94	-3.16	-8.43	-3.06	0.31	-0.23	-15.66
850.00	0.59	231.22	849.93	-3.77	-9.24	-3.67	0.08	-0.08	-2.85
942.00	0.52	221.07	941.93	-4.39	-9.88	-4.27	0.13	-0.08	-11.03
1,034.00	0.64	242.93	1,033.92	-4.93	-10.61	-4.81	0.27	0.13	23.76
1,126.00	0.52	221.26	1,125.92	-5.48	-11.35	-5.35	0.27	-0.13	-23.55
1,219.00	0.74	232.64	1,218.91	-6.16	-12.10	-6.02	0.27	0.24	12.24
1,311.00	0.79	227.63	1,310.90	-6.95	-13.04	-6.80	0.09	0.05	-5.45
1,407.00	0.73	225.52	1,406.90	-7.83	-13.97	-7.66	0.07	-0.06	-2.20
1,502.00	0.67	222.13	1,501.89	-8.66	-14.77	-8.49	0.08	-0.06	-3.57
1,608.00	0.64	242.95	1,607.88	-9.39	-15.72	-9.21	0.23	-0.03	19.64
1,693.00	0.51	236.87	1,692.88	-9.81	-16.46	-9.62	0.17	-0.15	-7.15
1,788.00	0.32	173.84	1,787.88	-10.31	-16.78	-10.11	0.49	-0.20	-66.35
1,884.00	0.36	20.23	1,883.88	-10.29	-16.65	-10.10	0.69	0.04	-160.01
1,979.00	0.78	0.22	1,978.87	-9.37	-16.54	-9.17	0.48	0.44	-21.06
2,074.00	0.77	356.40	2,073.86	-8.08	-16.58	-7.89	0.06	-0.01	-4.02
2,169.00	0.35	292.21	2,168.86	-7.33	-16.89	-7.14	0.73	-0.44	-67.57
2,264.00	1.17	232.43	2,263.85	-7.82	-17.93	-7.61	1.09	0.86	-62.93
2,359.00	2.74	221.35	2,358.79	-10.11	-20.20	-9.88	1.69	1.65	-11.66
2,454.00	4.23	221.27	2,453.61	-14.45	-24.01	-14.17	1.57	1.57	-0.08
2,549.00	4.90	225.79	2,548.31	-19.91	-29.23	-19.57	0.80	0.71	4.76
2,644.00	5.05	233.61	2,642.95	-25.22	-35.50	-24.81	0.73	0.16	8.23
2,738.00	5.34	240.20	2,736.57	-29.85	-42.63	-29.35	0.71	0.31	7.01
2,832.00	5.01	240.85	2,830.19	-34.02	-50.01	-33.44	0.36	-0.35	0.69
2,927.00	5.59	243.00	2,924.78	-38.15	-57.75	-37.47	0.65	0.61	2.26
3,019.00	5.79	248.02	3,016.33	-41.92	-66.05	-41.14	0.58	0.22	5.46
3,113.00	5.34	247.62	3,109.88	-45.36	-74.49	-44.48	0.48	-0.48	-0.43
3,208.00	4.72	244.83	3,204.52	-48.70	-82.11	-47.74	0.70	-0.65	-2.94
3,301.00	4.56	242.94	3,297.21	-52.01	-88.87	-50.97	0.24	-0.17	-2.03
3,396.00	5.41	237.84	3,391.85	-56.11	-96.02	-54.99	1.01	0.89	-5.37
3,490.00	5.50	239.48	3,485.43	-60.76	-103.66	-59.54	0.19	0.10	1.74
3,584.00	6.50	244.57	3,578.91	-65.33	-112.34	-64.01	1.20	1.06	5.41
3,679.00	5.80	242.05	3,673.36	-69.89	-121.44	-68.47	0.79	-0.74	-2.65
3,774.00	5.19	240.59	3,767.93	-74.25	-129.42	-72.73	0.66	-0.64	-1.54
3,869.00	5.70	242.95	3,862.50	-78.51	-137.37	-76.90	0.59	0.54	2.48
3,964.00	6.50	247.53	3,956.96	-82.71	-146.54	-80.99	0.99	0.84	4.82
4,058.00	6.12	244.98	4,050.39	-86.86	-156.00	-85.03	0.50	-0.40	-2.71
4,154.00	5.94	245.34	4,145.86	-91.10	-165.15	-89.16	0.19	-0.19	0.38
4,248.00	5.68	243.95	4,239.38	-95.17	-173.75	-93.13	0.31	-0.28	-1.48
4,341.00	5.68	247.32	4,331.92	-98.96	-182.13	-96.83	0.36	0.00	3.62
4,435.00	6.01	248.35	4,425.43	-102.57	-190.99	-100.33	0.37	0.35	1.10
4,531.00	6.03	245.92	4,520.90	-106.49	-200.27	-104.14	0.27	0.02	-2.53
4,625.00	6.11	246.60	4,614.38	-110.49	-209.37	-108.03	0.11	0.09	0.72
4,720.00	6.03	246.27	4,708.84	-114.50	-218.57	-111.94	0.09	-0.08	-0.35

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Uncle Richard State Com 213H
Project:	Lea County, NM (NAD 27 NM E 3001)	**TVD Reference:**	Patt 256 @ 3293.80usft
Site:	Uncle Richard State Com Pad	**MD Reference:**	Patt 256 @ 3293.80usft
Well:	Uncle Richard State Com 213H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	FHartmann

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,814.00	5.96	246.63	4,802.33	-118.43	-227.57	-115.76	0.08	-0.07	0.38
4,909.00	6.01	247.75	4,896.81	-122.27	-236.70	-119.49	0.13	0.05	1.18
5,004.00	5.72	249.20	4,991.31	-125.83	-245.73	-122.95	0.34	-0.31	1.53
5,099.00	5.99	241.09	5,085.82	-129.91	-254.50	-126.92	0.92	0.28	-8.54
5,194.00	6.58	237.57	5,180.25	-135.22	-263.43	-132.13	0.74	0.62	-3.71
5,289.00	6.43	236.88	5,274.64	-141.05	-272.48	-137.85	0.18	-0.16	-0.73
5,383.00	6.28	237.31	5,368.06	-146.70	-281.22	-143.40	0.17	-0.16	0.46
5,479.00	5.93	236.89	5,463.52	-152.25	-289.79	-148.85	0.37	-0.36	-0.44
5,573.00	5.57	235.99	5,557.04	-157.45	-297.64	-153.96	0.39	-0.38	-0.96
5,668.00	5.09	235.92	5,651.63	-162.39	-304.95	-158.81	0.51	-0.51	-0.07
5,764.00	4.89	234.70	5,747.27	-167.14	-311.82	-163.48	0.24	-0.21	-1.27
5,858.00	4.86	236.90	5,840.93	-171.63	-318.42	-167.89	0.20	-0.03	2.34
5,953.00	5.19	238.22	5,935.56	-176.09	-325.45	-172.27	0.37	0.35	1.39
6,053.00	4.92	235.53	6,035.17	-180.90	-332.83	-177.00	0.36	-0.27	-2.69
6,139.00	4.98	236.81	6,120.85	-185.03	-338.99	-181.05	0.15	0.07	1.49
6,234.00	4.96	236.40	6,215.50	-189.56	-345.86	-185.50	0.04	-0.02	-0.43
6,329.00	6.61	253.31	6,310.01	-193.40	-354.52	-189.24	2.48	1.74	17.80
6,424.00	6.85	253.77	6,404.36	-196.56	-365.20	-192.27	0.26	0.25	0.48
6,519.00	6.56	254.32	6,498.71	-199.61	-375.86	-195.20	0.31	-0.31	0.58
6,615.00	5.97	254.53	6,594.14	-202.42	-385.95	-197.89	0.62	-0.61	0.22
6,709.00	5.56	256.06	6,687.66	-204.82	-395.08	-200.19	0.47	-0.44	1.63
6,804.00	7.19	241.83	6,782.08	-208.74	-404.79	-203.99	2.38	1.72	-14.98
6,898.00	8.23	232.56	6,875.23	-215.61	-415.32	-210.73	1.72	1.11	-9.86
6,992.00	7.57	229.66	6,968.34	-223.70	-425.38	-218.71	0.82	-0.70	-3.09
7,087.00	6.96	246.59	7,062.58	-230.04	-435.44	-224.93	2.33	-0.64	17.82
7,180.00	6.67	247.95	7,154.93	-234.31	-445.61	-229.08	0.36	-0.31	1.46
7,274.00	6.05	246.18	7,248.35	-238.36	-455.20	-233.02	0.69	-0.66	-1.88
7,368.00	5.30	243.53	7,341.89	-242.29	-463.62	-236.86	0.84	-0.80	-2.82
7,461.00	4.77	242.41	7,434.53	-246.00	-470.89	-240.48	0.58	-0.57	-1.20
7,556.00	4.17	243.32	7,529.24	-249.38	-477.48	-243.78	0.64	-0.63	0.96
7,650.00	3.90	244.34	7,623.01	-252.30	-483.42	-246.63	0.30	-0.29	1.09
7,745.00	3.15	241.91	7,717.83	-254.93	-488.63	-249.20	0.80	-0.79	-2.56
7,839.00	1.91	270.64	7,811.74	-256.13	-492.48	-250.35	1.85	-1.32	30.56
7,933.00	1.62	273.84	7,905.69	-256.02	-495.37	-250.21	0.33	-0.31	3.40
8,028.00	0.52	320.67	8,000.67	-255.60	-496.98	-249.77	1.39	-1.16	49.29
8,122.00	0.72	44.68	8,094.67	-254.85	-496.84	-249.02	0.90	0.21	89.37
8,217.00	0.78	47.66	8,189.66	-253.99	-495.94	-248.17	0.08	0.06	3.14
8,312.00	0.99	65.61	8,284.65	-253.21	-494.71	-247.41	0.36	0.22	18.89
8,407.00	1.25	81.03	8,379.63	-252.71	-492.94	-246.93	0.42	0.27	16.23
8,503.00	1.48	92.85	8,475.61	-252.61	-490.67	-246.85	0.38	0.24	12.31
8,598.00	1.36	97.60	8,570.58	-252.82	-488.33	-247.09	0.18	-0.13	5.00
8,693.00	1.02	84.98	8,665.56	-252.89	-486.37	-247.19	0.45	-0.36	-13.28
8,788.00	0.83	81.94	8,760.54	-252.72	-484.84	-247.04	0.21	-0.20	-3.20
8,883.00	0.81	76.64	8,855.53	-252.47	-483.51	-246.80	0.08	-0.02	-5.58

Survey Report

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Project:	Lea County, NM (NAD 27 NM E 3001)	**TVD Reference:**	Patt 256 @ 3293.80usft
Site:	Uncle Richard State Com Pad	**MD Reference:**	Patt 256 @ 3293.80usft
Well:	Uncle Richard State Com 213H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	FHartmann

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,978.00	0.38	207.78	8,950.53	-252.60	-483.00	-246.93	1.16	-0.45	138.04
9,073.00	0.27	204.12	9,045.53	-253.08	-483.24	-247.41	0.12	-0.12	-3.85
9,168.00	0.71	65.34	9,140.53	-253.04	-482.80	-247.37	0.98	0.46	-146.08
9,262.00	1.19	326.78	9,234.52	-251.98	-482.80	-246.31	1.57	0.51	-104.85
9,357.00	1.63	326.79	9,329.49	-250.02	-484.08	-244.34	0.46	0.46	0.01
9,451.00	1.74	346.89	9,423.45	-247.51	-485.14	-241.82	0.64	0.12	21.38
9,546.00	0.61	325.88	9,518.43	-245.69	-485.75	-239.99	1.25	-1.19	-22.12
9,641.00	0.53	310.77	9,613.42	-244.98	-486.37	-239.28	0.18	-0.08	-15.91
9,736.00	0.66	280.95	9,708.42	-244.59	-487.24	-238.88	0.35	0.14	-31.39
9,830.00	0.66	253.36	9,802.41	-244.65	-488.29	-238.92	0.33	0.00	-29.35
9,926.00	0.76	245.15	9,898.41	-245.07	-489.40	-239.33	0.15	0.10	-8.55
10,021.00	0.72	242.01	9,993.40	-245.62	-490.49	-239.86	0.06	-0.04	-3.31
10,116.00	0.81	251.29	10,088.39	-246.11	-491.66	-240.35	0.16	0.09	9.77
10,211.00	0.84	248.78	10,183.38	-246.58	-492.94	-240.80	0.05	0.03	-2.64
10,305.00	0.93	248.30	10,277.37	-247.11	-494.29	-241.31	0.10	0.10	-0.51
10,400.00	1.55	259.84	10,372.35	-247.62	-496.27	-241.80	0.70	0.65	12.15
10,537.00	9.48	345.99	10,508.70	-236.98	-500.84	-231.11	6.94	5.79	62.88
First Gyro Survey @ 10537									
10,564.00	10.34	347.66	10,535.29	-232.45	-501.90	-226.57	3.36	3.19	6.19
10,603.96	10.04	348.44	10,574.62	-225.54	-503.36	-219.64	0.84	-0.76	1.95
FTP @ 10603.96									
10,659.00	9.62	349.59	10,628.86	-216.32	-505.15	-210.40	0.84	-0.76	2.09
10,754.00	8.41	354.69	10,722.68	-201.59	-507.23	-195.65	1.53	-1.27	5.37
10,846.00	6.64	356.98	10,813.89	-189.58	-508.13	-183.63	1.95	-1.92	2.49
Last Gyro Survey @ 10846									
10,954.00	15.17	1.20	10,919.84	-169.18	-508.17	-163.23	7.93	7.90	3.91
First ST01 Survey @ 10954									
11,048.00	19.89	0.72	11,009.45	-140.88	-507.71	-134.93	5.02	5.02	-0.51
11,139.00	24.80	7.12	11,093.60	-106.44	-505.14	-100.52	6.01	5.40	7.03
11,231.00	38.69	10.81	11,171.66	-58.81	-497.32	-52.99	15.24	15.10	4.01
11,321.00	48.36	5.37	11,236.86	2.47	-488.88	8.19	11.51	10.74	-6.04
11,413.00	60.46	1.62	11,290.31	77.00	-484.51	82.66	13.56	13.15	-4.08
11,506.00	73.66	1.71	11,326.48	162.42	-482.02	168.04	14.19	14.19	0.10
11,597.00	92.26	359.71	11,337.59	252.32	-480.94	257.93	20.55	20.44	-2.20
11,690.00	91.11	357.11	11,334.85	345.24	-483.52	350.87	3.06	-1.24	-2.80
11,782.00	92.39	357.41	11,332.04	437.09	-487.92	442.76	1.43	1.39	0.33
11,875.00	93.52	1.77	11,327.25	529.94	-488.58	535.62	4.84	1.22	4.69
11,967.00	87.41	0.84	11,326.50	621.87	-486.49	627.51	6.72	-6.64	-1.01
12,061.00	89.12	359.59	11,329.35	715.82	-486.14	721.45	2.25	1.82	-1.33
12,156.00	92.34	357.83	11,328.14	810.77	-488.27	816.42	3.86	3.39	-1.85
12,251.00	91.86	355.08	11,324.65	905.52	-494.14	911.23	2.94	-0.51	-2.89
12,344.00	88.78	353.09	11,324.13	998.00	-503.73	1,003.83	3.94	-3.31	-2.14
12,439.00	87.80	351.30	11,326.97	1,092.08	-516.62	1,098.04	2.15	-1.03	-1.88
12,533.00	90.38	354.58	11,328.46	1,185.33	-528.17	1,191.43	4.44	2.74	3.49

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Survey Report

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Project:	Lea County, NM (NAD 27 NM E 3001)	**TVD Reference:**	Patt 256 @ 3293.80usft
Site:	Uncle Richard State Com Pad	**MD Reference:**	Patt 256 @ 3293.80usft
Well:	Uncle Richard State Com 213H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	FHartmann

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,628.00	90.43	356.91	11,327.79	1,280.06	-535.22	1,286.23	2.45	0.05	2.45
12,723.00	91.11	355.15	11,326.51	1,374.82	-541.79	1,381.06	1.99	0.72	-1.85
12,817.00	89.40	355.94	11,326.10	1,468.53	-549.09	1,474.85	2.00	-1.82	0.84
12,912.00	88.14	0.10	11,328.14	1,563.43	-552.38	1,569.78	4.57	-1.33	4.38
13,007.00	90.04	0.43	11,329.64	1,658.41	-551.94	1,664.75	2.03	2.00	0.35
13,102.00	91.47	359.32	11,328.39	1,753.40	-552.14	1,759.74	1.91	1.51	-1.17
13,197.00	92.42	356.27	11,325.17	1,848.26	-555.80	1,854.63	3.36	1.00	-3.21
13,291.00	91.86	0.08	11,321.66	1,942.13	-558.79	1,948.53	4.09	-0.60	4.05
13,386.00	88.36	0.23	11,321.47	2,037.12	-558.53	2,043.51	3.69	-3.68	0.16
13,480.00	86.88	359.80	11,325.38	2,131.03	-558.50	2,137.42	1.64	-1.57	-0.46
13,575.00	87.66	1.96	11,329.90	2,225.91	-557.05	2,232.27	2.41	0.82	2.27
13,668.00	90.63	3.75	11,331.29	2,318.77	-552.41	2,325.07	3.73	3.19	1.92
13,763.00	91.92	3.87	11,329.18	2,413.53	-546.10	2,419.75	1.36	1.36	0.13
13,859.00	92.76	0.33	11,325.26	2,509.37	-542.59	2,515.54	3.79	0.88	-3.69
13,953.00	93.44	359.94	11,320.17	2,603.23	-542.37	2,609.40	0.83	0.72	-0.41
14,048.00	91.55	359.63	11,316.04	2,698.14	-542.72	2,704.30	2.02	-1.99	-0.33
14,142.00	90.97	359.35	11,313.97	2,792.11	-543.56	2,798.27	0.69	-0.62	-0.30
14,236.00	91.27	359.44	11,312.13	2,886.09	-544.55	2,892.26	0.33	0.32	0.10
14,330.00	89.09	359.08	11,311.84	2,980.07	-545.77	2,986.25	2.35	-2.32	-0.38
14,425.00	90.24	359.15	11,312.39	3,075.06	-547.23	3,081.25	1.21	1.21	0.07
14,519.00	89.71	358.84	11,312.43	3,169.04	-548.88	3,175.24	0.65	-0.56	-0.33
14,610.00	90.07	358.59	11,312.61	3,260.02	-550.92	3,266.24	0.48	0.40	-0.27
14,704.00	90.66	357.05	11,312.01	3,353.95	-554.50	3,360.20	1.75	0.63	-1.64
14,797.00	91.47	356.90	11,310.28	3,446.80	-559.41	3,453.11	0.89	0.87	-0.16
14,892.00	93.04	355.67	11,306.54	3,541.52	-565.56	3,547.89	2.10	1.65	-1.29
14,986.00	90.88	357.97	11,303.33	3,635.31	-570.76	3,641.74	3.36	-2.30	2.45
15,081.00	90.04	359.61	11,302.57	3,730.28	-572.77	3,736.72	1.94	-0.88	1.73
15,175.00	89.37	0.57	11,303.05	3,824.28	-572.62	3,830.71	1.25	-0.71	1.02
15,269.00	89.68	359.94	11,303.83	3,918.27	-572.20	3,924.70	0.75	0.33	-0.67
15,363.00	92.34	2.27	11,302.17	4,012.23	-570.39	4,018.62	3.76	2.83	2.48
15,457.00	93.58	1.08	11,297.32	4,106.06	-567.65	4,112.42	1.83	1.32	-1.27
15,550.00	95.03	359.28	11,290.34	4,198.79	-567.36	4,205.14	2.48	1.56	-1.94
15,644.00	96.59	357.33	11,280.82	4,292.26	-570.12	4,298.63	2.65	1.66	-2.07
15,737.00	91.30	357.71	11,274.42	4,384.92	-574.13	4,391.33	5.70	-5.69	0.41
15,832.00	90.35	357.19	11,273.06	4,479.81	-578.36	4,486.27	1.14	-1.00	-0.55
15,926.00	91.13	359.04	11,271.84	4,573.75	-581.45	4,580.24	2.14	0.83	1.97
16,020.00	90.85	358.21	11,270.22	4,667.71	-583.71	4,674.21	0.93	-0.30	-0.88
16,115.00	93.24	0.02	11,266.83	4,762.62	-585.17	4,769.14	3.16	2.52	1.91
16,209.00	93.13	359.31	11,261.60	4,856.48	-585.72	4,862.99	0.76	-0.12	-0.76
16,304.00	90.63	358.25	11,258.49	4,951.40	-587.74	4,957.93	2.86	-2.63	-1.12
16,397.00	94.28	358.98	11,254.51	5,044.27	-589.99	5,050.82	4.00	3.92	0.78
16,491.00	94.59	357.26	11,247.24	5,137.93	-593.06	5,144.51	1.85	0.33	-1.83
16,584.00	95.14	357.79	11,239.35	5,230.51	-597.07	5,237.13	0.82	0.59	0.57

Survey Report

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Project:	Lea County, NM (NAD 27 NM E 3001)	**TVD Reference:**	Patt 256 @ 3293.80usft
Site:	Uncle Richard State Com Pad	**MD Reference:**	Patt 256 @ 3293.80usft
Well:	Uncle Richard State Com 213H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	FHartmann

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,678.00	94.64	358.22	11,231.34	5,324.11	-600.33	5,330.77	0.70	-0.53	0.46
16,772.00	94.53	0.58	11,223.82	5,417.80	-601.31	5,424.46	2.51	-0.12	2.51
16,865.00	94.92	0.22	11,216.16	5,510.48	-600.66	5,517.12	0.57	0.42	-0.39
16,958.00	92.67	0.77	11,210.00	5,603.26	-599.86	5,609.90	2.49	-2.42	0.59
17,052.00	92.40	0.39	11,205.85	5,697.17	-598.91	5,703.78	0.50	-0.29	-0.40
17,146.00	92.51	359.80	11,201.82	5,791.08	-598.75	5,797.69	0.64	0.12	-0.63
17,239.00	91.02	359.95	11,198.96	5,884.03	-598.95	5,890.63	1.61	-1.60	0.16
17,334.00	92.40	358.56	11,196.12	5,978.98	-600.19	5,985.59	2.06	1.45	-1.46
17,428.00	90.27	1.03	11,193.93	6,072.94	-600.52	6,079.55	3.47	-2.27	2.63
17,522.00	91.86	0.14	11,192.18	6,166.91	-599.56	6,173.50	1.94	1.69	-0.95
17,616.00	91.36	1.60	11,189.54	6,260.86	-598.14	6,267.43	1.64	-0.53	1.55
17,710.00	92.56	1.14	11,186.33	6,354.78	-595.89	6,361.31	1.37	1.28	-0.49
17,804.00	90.38	2.35	11,183.92	6,448.70	-593.03	6,455.19	2.65	-2.32	1.29
17,899.00	91.02	1.24	11,182.76	6,543.64	-590.05	6,550.09	1.35	0.67	-1.17
17,993.00	96.22	1.13	11,176.82	6,637.40	-588.11	6,643.83	5.53	5.53	-0.12
18,087.00	89.82	2.65	11,171.87	6,731.17	-585.02	6,737.55	7.00	-6.81	1.62
18,182.00	88.67	1.61	11,173.12	6,826.09	-581.49	6,832.43	1.63	-1.21	-1.09
18,276.00	86.93	0.00	11,176.73	6,920.01	-580.17	6,926.32	2.52	-1.85	-1.71
18,370.00	88.03	359.68	11,180.87	7,013.91	-580.43	7,020.22	1.22	1.17	-0.34
18,465.00	91.61	358.95	11,181.16	7,108.89	-581.56	7,115.21	3.85	3.77	-0.77
18,560.00	94.27	358.48	11,176.29	7,203.73	-583.69	7,210.07	2.84	2.80	-0.49
18,654.00	94.11	358.78	11,169.42	7,297.46	-585.93	7,303.81	0.36	-0.17	0.32
18,748.00	92.20	0.01	11,164.25	7,391.30	-586.92	7,397.66	2.42	-2.03	1.31
18,842.00	89.99	359.67	11,162.45	7,485.28	-587.18	7,491.63	2.38	-2.35	-0.36
18,934.00	91.33	359.30	11,161.40	7,577.27	-588.01	7,583.62	1.51	1.46	-0.40
19,028.00	92.82	359.09	11,157.99	7,671.19	-589.33	7,677.56	1.60	1.59	-0.22
19,123.00	91.86	358.98	11,154.11	7,766.10	-590.93	7,772.48	1.02	-1.01	-0.12
19,217.00	92.06	359.80	11,150.90	7,860.04	-591.93	7,866.42	0.90	0.21	0.87
19,312.00	90.13	359.56	11,149.08	7,955.01	-592.46	7,961.40	2.05	-2.03	-0.25
19,407.00	89.71	359.40	11,149.22	8,050.01	-593.32	8,056.40	0.47	-0.44	-0.17
19,500.00	91.36	358.65	11,148.35	8,142.99	-594.90	8,149.39	1.95	1.77	-0.81
19,595.00	92.70	357.36	11,144.98	8,237.87	-598.21	8,244.30	1.96	1.41	-1.36
19,688.00	92.48	358.29	11,140.78	8,330.70	-601.73	8,337.17	1.03	-0.24	1.00
19,783.00	91.44	358.12	11,137.53	8,425.60	-604.71	8,432.10	1.11	-1.09	-0.18
19,878.00	92.12	357.59	11,134.58	8,520.49	-608.26	8,527.02	0.91	0.72	-0.56
19,973.00	93.27	357.23	11,130.11	8,615.28	-612.55	8,621.86	1.27	1.21	-0.38
20,068.00	92.99	359.38	11,124.92	8,710.09	-615.36	8,716.69	2.28	-0.29	2.26
20,162.00	92.68	359.78	11,120.28	8,803.98	-616.04	8,810.58	0.54	-0.33	0.43
20,257.00	92.20	0.11	11,116.23	8,898.89	-616.14	8,905.49	0.61	-0.51	0.35
20,352.00	89.37	0.28	11,114.93	8,993.87	-615.81	9,000.46	2.98	-2.98	0.18
20,445.00	88.02	358.98	11,117.05	9,086.84	-616.41	9,093.43	2.01	-1.45	-1.40
20,541.00	89.68	358.37	11,118.97	9,182.79	-618.63	9,189.40	1.84	1.73	-0.64
20,636.00	89.65	357.61	11,119.53	9,277.73	-621.96	9,284.37	0.80	-0.03	-0.80

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Uncle Richard State Com 213H
Project:	Lea County, NM (NAD 27 NM E 3001)	**TVD Reference:**	Patt 256 @ 3293.80usft
Site:	Uncle Richard State Com Pad	**MD Reference:**	Patt 256 @ 3293.80usft
Well:	Uncle Richard State Com 213H	**North Reference:**	Grid
Wellbore:	ST01	**Survey Calculation Method:**	Minimum Curvature
Design:	ST01	**Database:**	FHartmann

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,730.00	90.52	359.09	11,119.39	9,371.69	-624.67	9,378.35	1.83	0.93	1.57
20,825.00	92.26	359.71	11,117.09	9,466.65	-625.66	9,473.32	1.94	1.83	0.65
20,921.00	93.13	359.66	11,112.57	9,562.54	-626.19	9,569.21	0.91	0.91	-0.05
21,016.00	93.34	358.20	11,107.21	9,657.37	-627.96	9,664.05	1.55	0.22	-1.54
21,109.00	92.26	357.70	11,102.67	9,750.20	-631.29	9,756.92	1.28	-1.16	-0.54
21,204.00	93.94	357.68	11,097.53	9,844.98	-635.11	9,851.73	1.77	1.77	-0.02
21,298.00	95.01	357.38	11,090.20	9,938.61	-639.15	9,945.40	1.18	1.14	-0.32
Last Survey @ 21298									
21,383.00	95.01	357.38	11,082.77	10,023.19	-643.02	10,030.03	0.00	0.00	0.00
TD @ 21383									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,537.00	10,508.70	-236.98	-500.84	First Gyro Survey @ 10537
10,603.96	10,574.62	-225.54	-503.36	FTP @ 10603.96
10,846.00	10,813.89	-189.58	-508.13	Last Gyro Survey @ 10846
10,954.00	10,919.84	-169.18	-508.17	First ST01 Survey @ 10954
21,298.00	11,090.20	9,938.61	-639.15	Last Survey @ 21298
21,383.00	11,082.77	10,023.19	-643.02	TD @ 21383

Checked By: _____ Approved By: _____ Date: _____

Released to Imaging: 5/5/2026 9:27:39 AM

END OF WELL REPORT

DATE:
03/21/2023

CLIENT: Matador Resources
STATE AND COUNTY: Lea County, NM
WELL: Uncle Richard State Com 213H
API NUMBER: 30-025-50845
AEP NUMBER: AEP-PB-230022

PREPARED BY

NAME Fred Hartmann

TITLE Well Planner

SIGNATURE DocuSigned by: Frederick Hartmann 812F391A5CFF431...

DATE 3/21/2023

APPROVED BY

NAME Jett Hunter

TITLE Permian Ops Manager

SIGNATURE DocuSigned by: Jett Hunter 090965489712487...

DATE 3/21/2023



AEP-PB-230022
Matador Resources
Uncle Richard State Com 213H - ST01
New Mexico
Lea
Patterson 256

End Of Well Report - 03/20/2023

Matador Resources / Uncle Richard State Com 213H - ST01 / AEP-PB-230022 / Patterson 256			
Report Date	02/14/2023	**Current Depth**	13511.00
Start Date	01/05/2023	**Casing Depth**	0.00
Daily Cost (USD)		**Distance to TD**	8017.13
Well Cost (USD)		**Average ROP**	0.00
Drilling Hours	0.00	**Svy MD**	10714.00
24Hr Forecast		**Svy Inc**	1.55
24Hr Summary		**Svy Azi**	4.97
Principal Plan	Uncle Richard State Com 213H - ST01 Plan 3 - ST01	**Svy TVD**	10686.24
Current BHA	**Svy NS**	-245.22	
Current BRT Hrs	0.00	**Svy EW**	-502.53
Bit Make / Model		**Svy Hi/Lo**	-0.00
POOH in last 24Hrs	No	**Svy Left/Right**	-0.00
Rig Down Time	No	**Max Temp Day**	0.00
Mud Type	WBM	**Max Temp Well**	0.00

Personnel			
Directional Driller Day	Keith Koening	**MWD Day**	Tyler Hasbrouck
Directional Driller Night	Steve Tacheny	**MWD Night**	Julie Ogden
RSS Engineer 1		**Third Man**	
RSS Engineer 2		**Fourth Man**	

Comments

Motors On Location

SN	Description	Make	Comments	Status	Prev Hrs	Well Hrs	Total Hrs
AEP5059	5 - 6/7 8.8 Motor @2.0deg FBH	Altitude		Clean			
AEP5063	5 - 6/7 8.8 Motor @2.0deg FBH	Altitude		Clean			
AEP52029	5.25 - 6/7 8.8 Motor @1.83deg FBH	Altitude		Clean			
AEP5006	5 - 7/8 8.2 Motor @2.38 deg FBH	Altitude		Clean			

MWD Tools On Location

SN	Description	Make	Comments	Status	Prev Hrs	Well Hrs	Total Hrs
GT8005-227	Shock Meiser		XF	Clean			
800s117b	Shock Meiser		HF	Clean			
GT8005-259	Shock Meiser		XF	Clean			
GT8005-223	Shock Meiser		XF	Dirty	17.83	122.58	140.41
500-194	Shock Meiser - HF			Dirty		17.42	17.42
500-039C	Shock Meiser - HF			Dirty		35.33	35.33
GT800s-106	Shock Meiser		SF	Clean			
GT800s-157	Shock Meiser		SF	Clean			
800s-195	Shock Meiser			Clean			
800s-206	Shock Meiser			Clean			
500-201	Shock Meiser			Clean			
500-076B	Shock Meiser - HF			Dirty		39.50	39.50
500-201	Shock Meiser			Clean			
GT-500-198	Shock Meiser UBHO			Clean			

Section - One
Well Summary

Well Summary

Uncle Richard State Com 213H - ST01 - Well Summary

Job #	AEP-PB-230022	**Operator**	Matador Resources
API Job# / AFE	/500002.850.01.001	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Rig	Patterson 256	**Well**	Uncle Richard State Com 213H
County	Lea	**State**	New Mexico
Latitude	32° 10' 2.761" N	**Longitude**	103° 16' 58.029" W
Start Date	01/05/2023	**Start Depth(Usft)**	120.00
End Date	02/14/2023	**End Depth(Usft)**	13511.00
Total Days	30	**Total Drilled (Usft)**	13391.00
Cost per day		**Cost per (Usft)**	
Curve Lndg MD / TVD		**Formation**	Wolfcamp B
Curve Planned DLS	11.00	**Lateral Dip**	91.90

BHA Summary

BHA #	Bit #	Hole Size (in)	Start (Usft)	End (Usft)	Drilled (Usft)	Avg ROP (Usft/hr)	Slide %	Drlg Hrs	Circ Hrs	BRT Hrs	Failed
1	1	17.500	120.00	1689.00	1569.00	138.44	0.00	11.33	4.25	20.00	
2	2	12.250	1689.00	6130.00	4441.00	90.94	11.98	48.83	8.92	67.50	
3	3	9.875	6130.00	9755.00	3625.00	84.14	5.96	43.08	6.17	62.50	
4	4	9.875	9755.00	10618.00	863.00	99.58	0.00	8.67	6.17	30.50	
5	5	6.750	10618.00	11396.00	778.00	51.58	8.35	15.08	2.33	33.00	YES
6	6	6.750	11396.00	12667.00	1271.00	47.37	7.16	26.83	8.50	51.00	
7	7	6.750	12667.00	13511.00	844.00	38.36	8.06	22.00	17.50	63.75	

Bit Run Record

Bit #	Make	Model	Size (in)	Grade In	Grade Out	TFA	Drilled	Drlg Hrs	ROP
1	Reed Hycalog	TK69-B8	17.500	0-1-CT-G-X-I-WT-TD	1-3-CT-S-X-I-BT-TD	1.035	1569.00	11.33	138.44
2	Baker Hughes	D507VTX	12.250	New	1-1-BT-S-X-I-CT-TD	1.353	4441.00	48.83	90.94
3	Reed Hycalog	TK66-U1	9.875	New	2-4-LT-S-X-I-BT-PR	0.902	3625.00	43.08	84.14
4	Baker Hughes	D507VTWX	9.875	New	1-1-BT-G-X-I-NO-TD	0.902	863.00	8.67	99.58
5	Baker Hughes	DD406VTH	6.750	New	1-2-BT-S-X-I-LT-PP	0.775	778.00	15.08	51.58
6	Reed Hycalog	TKC73-A4	6.750	New	1-2-WT-S-X-I-BT-PR	0.933	1271.00	26.83	47.37
7	Reed Hycalog	TKC73-A4	6.750	New	1-1-WT-G-X-I-WT-TD	0.933	844.00	22.00	38.36

Motor Summary

BHA #	Make	Model	Lobes	Stages	OD (in)	Bend	Bit to Bend	Drilled (Usft)	ROP (Usft/hr)
1	Altitude	AEP	7/8	7.0	8.780	1.75	8.43	1569.00	138.44
2	Altitude	AEP	7/8	7	8.780	1.75	8.49	4441.00	90.94
3	Altitude	AEP	7/8	7	8.330	1.75	5.88	3625.00	84.14
4	Altitude	AEP	7/8	7	8.330	1.75	5.88	863.00	99.58
5	Altitude	AEP	7/8	7	5.000	1.83	4.91	778.00	51.58
6	Altitude	AEP	6/7	8.8	5.000	1.75	4.91	1271.00	47.37
7	Altitude		7/8	7	5.000	1.83	4.95	844.00	38.36

Personnel Summary

Day DD	Night DD	Day MWD	Night MWD	Day Co Man	Night CO Man	Drilling Eng
Keith Koening	Randy Ewasko	Ben Brimhall	Ben Brimhall	Terry Warren	Johnathan Kollar	Perry Hawks
Steve Tacheny	Steve Tacheny	Tyler Hasbrouck	Julie Ogden			

Phase Summary

Phase	Days	Drilled (Usft)	Avg ROP (Usft/hr)	NPT (Rig/Dir)	# BHA's	Drlg Hrs
SURFACE: SURFACE	2.75	1569.00	138.44		1	11.33
INT-1: INTERMEDIATE 1	4.27	4441.00	90.94		1	48.83
INT-2: INTERMEDIATE 2	6.00	4488.00	86.72		2	51.75
INT-3: INTERMEDIATE 3	16.77	2893.00	45.26		3	63.92
Total	29.79	13391.00	76.16		7	175.83

Phase Summary - Per BHA

Phase / BHA	From (Usft)	To(Usft)	Rot ROP	Rot Dist	Slide ROP	Slide Dist	Slide %	Tot Drill	Avg ROP	Tot Hrs	Slide Hrs
SURFACE: SURFACE-Surface BHA #1	120.00	1689.00	138.44	1569.00	0.00	0.00	0.00	1569.00	138.44	11.33	0.00
INT-1: INTERMEDIATE 1-BHA 2 Start of Nudge	1689.00	6130.00	114.13	3909.00	36.48	532.00	11.98	4441.00	90.94	48.83	14.58
INT-2: INTERMEDIATE 2-BHA 3 Nudge to Vertical	6130.00	9755.00	97.17	3409.00	27.00	216.00	5.96	3625.00	84.14	43.08	8.00
INT-2: INTERMEDIATE 2-Nudge to Vertical	9755.00	10618.00	99.58	863.00	0.00	0.00	0.00	863.00	99.58	8.67	0.00
INT-3: INTERMEDIATE 3-Pilot Hole	10618.00	11396.00	63.85	713.00	16.60	65.00	8.35	778.00	51.58	15.08	3.92
INT-3: INTERMEDIATE 3-Pilot Hole - 2	11396.00	12667.00	55.31	1180.00	16.55	91.00	7.16	1271.00	47.37	26.83	5.50
INT-3: INTERMEDIATE 3-Pilot Hole - 3	12667.00	13511.00	48.00	776.00	11.66	68.00	8.06	844.00	38.36	22.00	5.83

Section - Two
Well Statistics

Well Statistics

Uncle Richard State Com 213H - ST01 - Well Statistics

Well Data		Drilling Data	
Job Number	AEP-PB-230022	Total Drilled(Usft)	13391.00
Operator	Matador Resources	Drilling Hours	175.83
Well Name	Uncle Richard State Com 213H - ST01	Avg ROP(Usft/hr)	76.16
Rig	Patterson 256	Rotary Drilled(Usft)	12419.00
State	New Mexico	Rotary Hours	138.00
County	Lea	Rotary ROP(Usft/hr)	89.99
Formation	Wolfcamp B	Rotary %	92.74
Start Date	01/05/2023	Slide Drilled(Usft)	972.00
End Date	02/14/2023	Slide Hours	37.83
Days On Well	30	Slide ROP(Usft/hr)	25.69
Start Depth (Usft)	0.00	Slide %	7.26
End Depth (Usft)	13511.00		
Total Drilled (Usft)	13391.00		
# BHA's	7		
# Motor Failures	0		
# MWD Failures	0		
NPT hrs (Rig/Dir)	1.67 / 0.00		

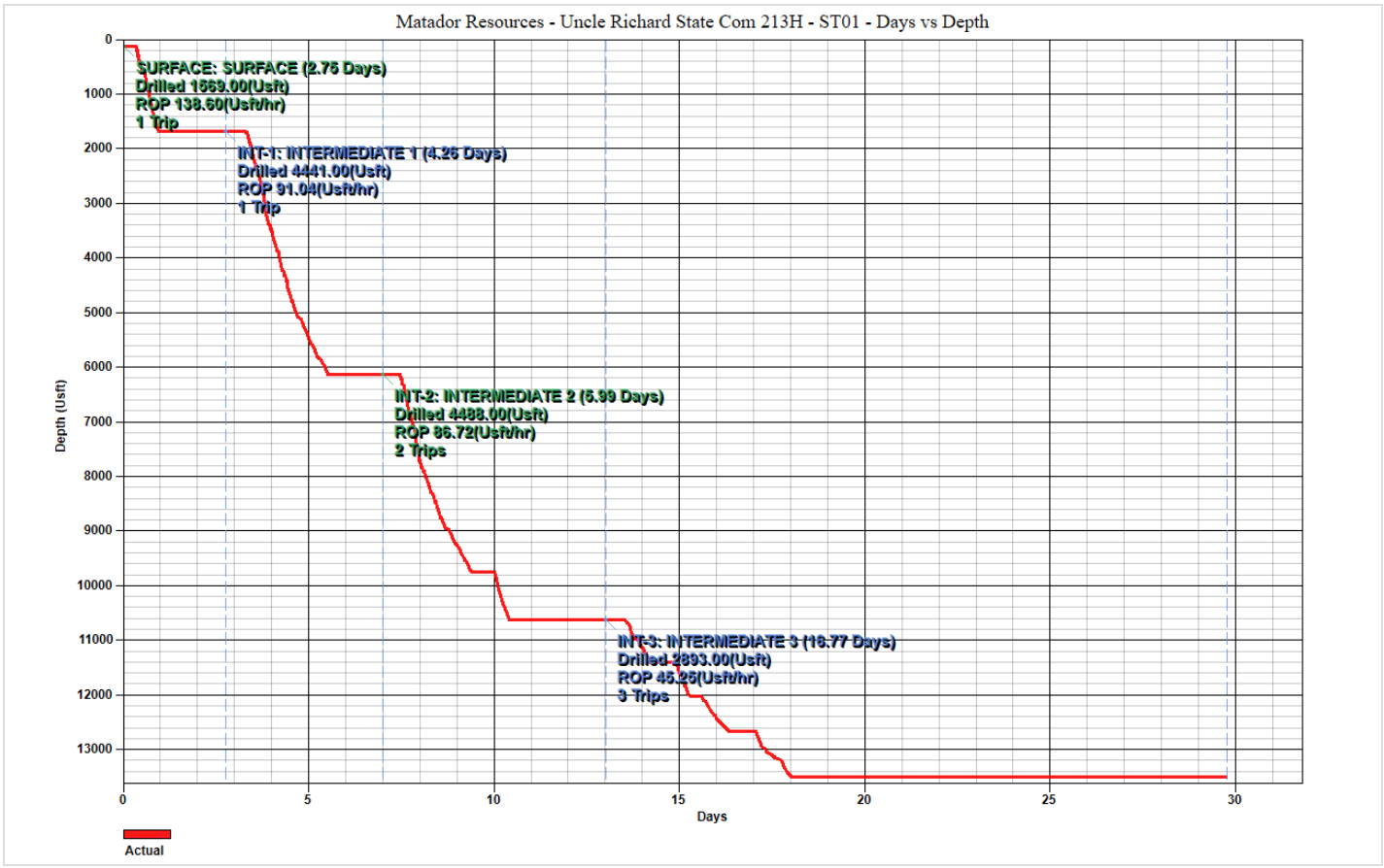
Phase Summary				
Phase	SURFACE	INT-1	INT-2	INT-3
Start Date	01/05/2023	01/07/2023	01/12/2023	01/18/2023
End Date	01/07/2023	01/12/2023	01/18/2023	02/14/2023
Total Days	2.75	4.27	6.00	16.77
Start Depth (Usft)	120.00	1689.00	6130.00	10618.00
End Depth (Usft)	1689.00	6130.00	10618.00	13511.00
Total Drilled(Usft)	1569.00	4441.00	4488.00	2893.00
Drilling Hours	11.33	48.83	51.75	63.92
Circulating Hours	5.25	10.00	12.33	30.58
Total D&C Hours	16.58	58.83	64.08	94.50
Avg ROP(Usft/hr)	138.44	90.94	86.72	45.26
Rotary Drilled(Usft)	1569.00	3909.00	4272.00	2669.00
Rotary Hours	11.33	34.25	43.75	48.67
Rotary ROP(Usft/hr)	138.44	114.13	97.65	54.84
Rotary %	100.00	88.02	95.19	92.26
Slide Drilled(Usft)	0.00	532.00	216.00	224.00
Slide Hours	0.00	14.58	8.00	15.25
Slide ROP(Usft/hr)	0.00	36.48	27.00	14.69
Slide %	0.00	11.98	4.81	7.74
# BHA	1	1	2	3
# Motor Failures	0	0	0	0
# MWD Failures	0	0	0	0
NPT hrs (Rig/Dir)	0.00 / 0.00	0.00 / 0.00	0.17 / 0.00	1.50 / 0.00
Total Phase Hrs	15.25	53.25	72.42	108.08
Phase ROP (Usft/hr)	102.89	83.40	61.97	26.77
Avg Motor Yield (deg/100Usft)	0.00	4.60	7.51	14.09
Avg Rotary DLS (deg/100Usft)	0.21	0.32	0.44	0.00
Avg Rotary TF	-129.36	-168.62	174.33	0.00
Avg Slide Length (Usft)	0.00	28.00	22.89	22.40
# Slides	0	19	9	10

BHA Summary							
BHA#	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Description	Surface BHA#1	BHA 2 Start of Nudge	BHA 3 Nudge to Vertical	Nudge to Vertical	Pilot Hole	Pilot Hole - 2	Pilot Hole - 3
Bit Size	17.500	12.250	9.875	9.875	6.750	6.750	6.750
Bit Make / Model	Reed Hycalog / TK69-B8	Baker Hughes / D507VTX	Reed Hycalog / TK66-U1	Baker Hughes / D507VTWX	Baker Hughes / DD406VTH	Reed Hycalog / TKC73-A4	Reed Hycalog / TKC73-A4
Bit TFA	1.035	1.353	0.902	0.902	0.775	0.933	0.933
Grade In	0-1-CT-G-X-I-WT-TD	New	New	New	New	New	New
Grade Out	1-3-CT-S-X-I-BT-TD	1-1-BT-S-X-I-CT-TD	2-4-LT-S-X-I-BT-PR	1-1-BT-G-X-I-NO-TD	1-2-BT-S-X-I-LT-PP	1-2-WT-S-X-I-BT-PR	1-1-WT-G-X-I-WT-TD
Motor SN	AEP9002	AEP9002	AEP8006	AEP8006	AEP5064	AEP5017	AEP5070
Motor Make/Model	Altitude / AEP	Altitude / AEP	Altitude / AEP	Altitude / AEP	Altitude / AEP	Altitude / AEP	Altitude
Lobes/Stages	7/8 / 7.0	7/8 / 7	7/8 / 7	7/8 / 7	7/8 / 7	6/7 / 8.8	7/8 / 7
WOB (psi)	5.00 / 27.75 / 35.00	25.00 / 29.06 / 30.00	5.00 / 38.22 / 50.00	35.00 / 35.00 / 35.00	25.00 / 25.47 / 32.00	25.00 / 25.00 / 25.00	25.00 / 25.00 / 25.00
Diff P (psi)	120.00 / 452.00 / 700.00	300.00 / 675.29 / 750.00	100.00 / 746.55 / 1000.00	500.00 / 500.00 / 500.00	800.00 / 800.00 / 800.00	750.00 / 750.00 / 750.00	700.00 / 700.00 / 700.00
Bend	1.750	1.750	1.750	1.750	1.830	1.750	1.830
Date In	01/05/2023	01/07/2023	01/12/2023	01/14/2023	01/18/2023	01/19/2023	01/21/2023
Date Out	01/06/2023	01/10/2023	01/14/2023	01/16/2023	01/19/2023	01/21/2023	01/24/2023
Time In	08:00	24:00	02:00	17:30	03:00	13:00	16:30
Time Out	04:00	22:30	16:30	01:30	12:00	16:00	08:15
BRT Hrs	20.00	70.50	62.50	32.00	33.00	51.00	63.75
Start Depth (Usft)	120.00	1689.00	6130.00	9755.00	10618.00	11396.00	12667.00
End Depth (Usft)	1689.00	6130.00	9755.00	10618.00	11396.00	12667.00	13511.00
Total Drilled(Usft)	1569.00	4441.00	3625.00	863.00	778.00	1271.00	844.00
Drilling Hours	11.33	48.83	43.08	8.67	15.08	26.83	22.00
Circulating Hours	4.25	8.92	6.17	6.17	2.33	8.50	17.50
Total D&C Hours	15.58	57.75	49.25	14.83	17.42	35.33	39.50
Avg ROP(Usft/hr)	138.44	90.94	84.14	99.58	51.58	47.37	38.36
Rotary Drilled(Usft)	1569.00	3909.00	3409.00	863.00	713.00	1180.00	776.00
Rotary Hours	11.33	34.25	35.08	8.67	11.17	21.33	16.17
Rotary ROP(Usft/hr)	138.44	114.13	97.17	99.58	63.85	55.31	48.00
Rotary %	100.00	88.02	94.04	100.00	91.65	92.84	91.94
Slide Drilled(Usft)	0.00	532.00	216.00	0.00	65.00	91.00	68.00
Slide Hours	0.00	14.58	8.00	0.00	3.92	5.50	5.83
Slide ROP(Usft/hr)	0.00	36.48	27.00	0.00	16.60	16.55	11.66
Slide %	0.00	11.98	5.96	0.00	8.35	7.16	8.06
Motor Failure	NO	NO	NO	NO	NO	NO	NO
MWD Failure	NO	NO	NO	NO	NO	NO	NO
Unplanned Trip	NO	NO	YES	NO	YES	NO	NO
LIH	NO	NO	NO	NO	NO	NO	NO
Avg Motor Yield (deg/100Usft)	0.00	4.60	7.51	0.00	14.09	0.00	0.00
Avg Rotary DLS (deg/100Usft)	0.21	0.32	0.49	0.28	0.00	0.00	0.00
Avg Rotary TF	-129.36	-168.62	172.67	-13.85	0.00	0.00	0.00
Avg Slide Length (Usft)	0.00	28.00	22.89	0.00	21.67	18.20	34.00
# Slides	0	19	9	0	3	5	2

Section - Three
Depth V Time

Depth V Time

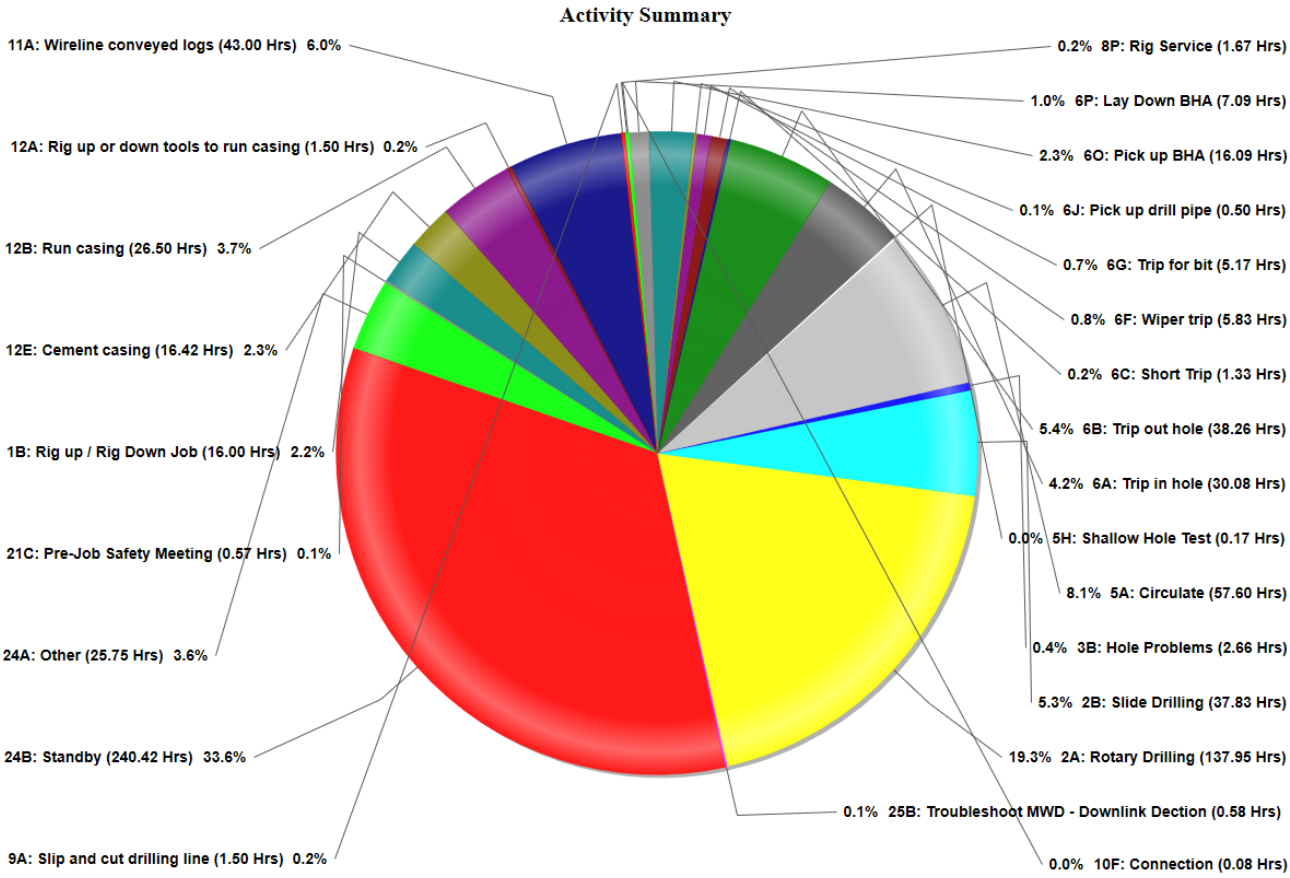
Uncle Richard State Com 213H - ST01 - Depth V Time



Section - Four
Well Summary Charts

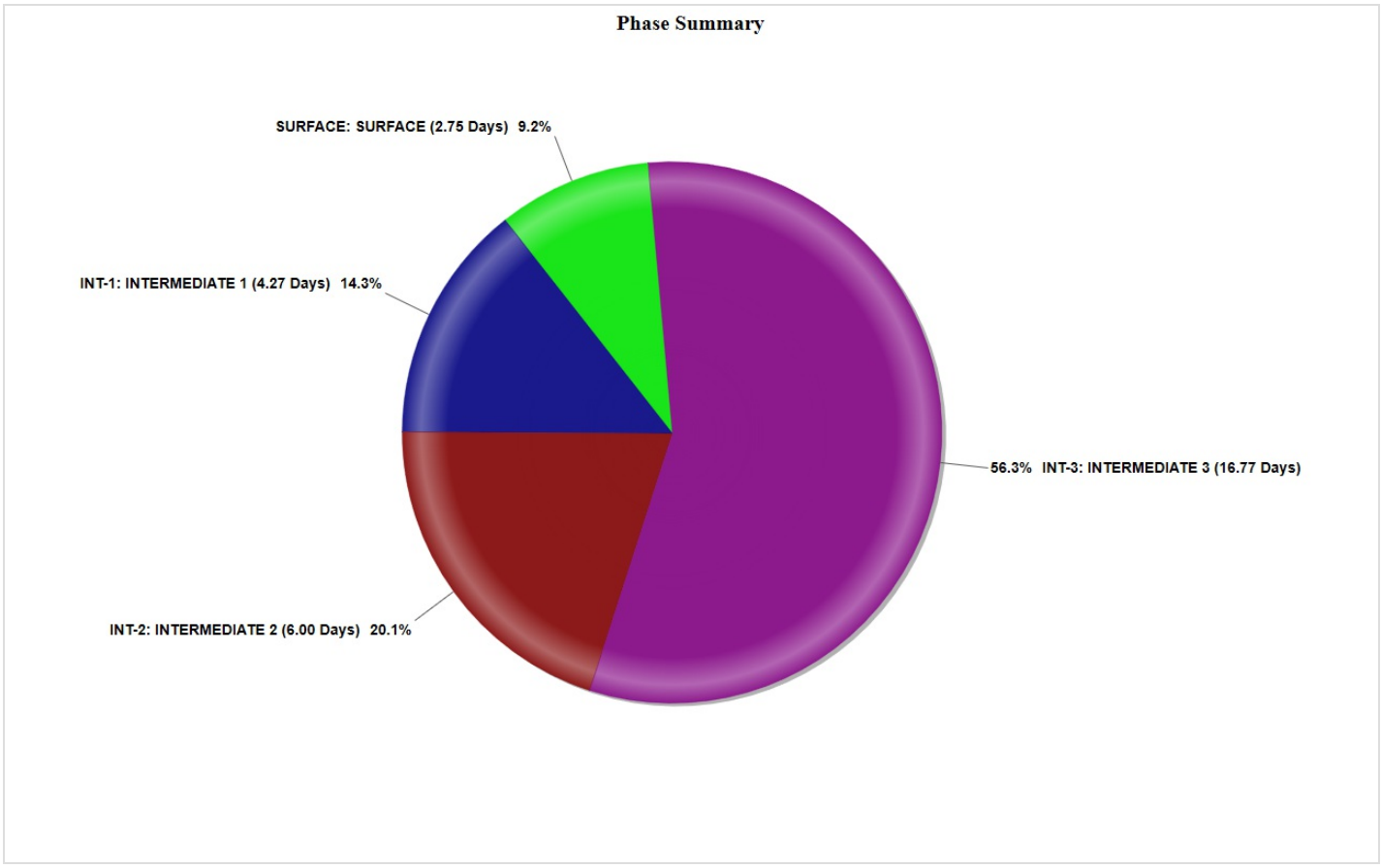
Activity Summary

Uncle Richard State Com 213H - ST01 - Activity Summary



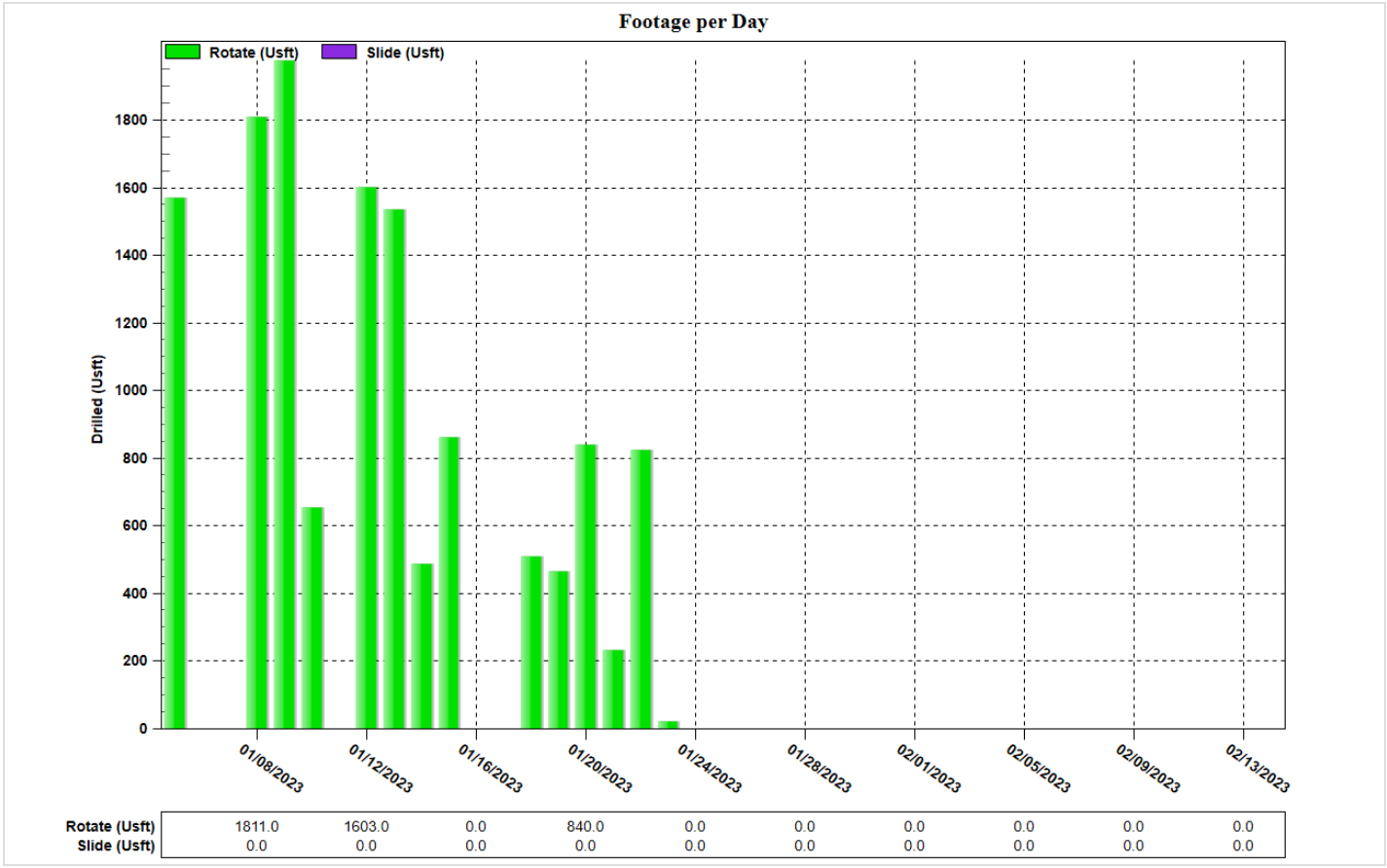
Phase Summary

Uncle Richard State Com 213H - ST01 - Phase Summary



Footage Per Day

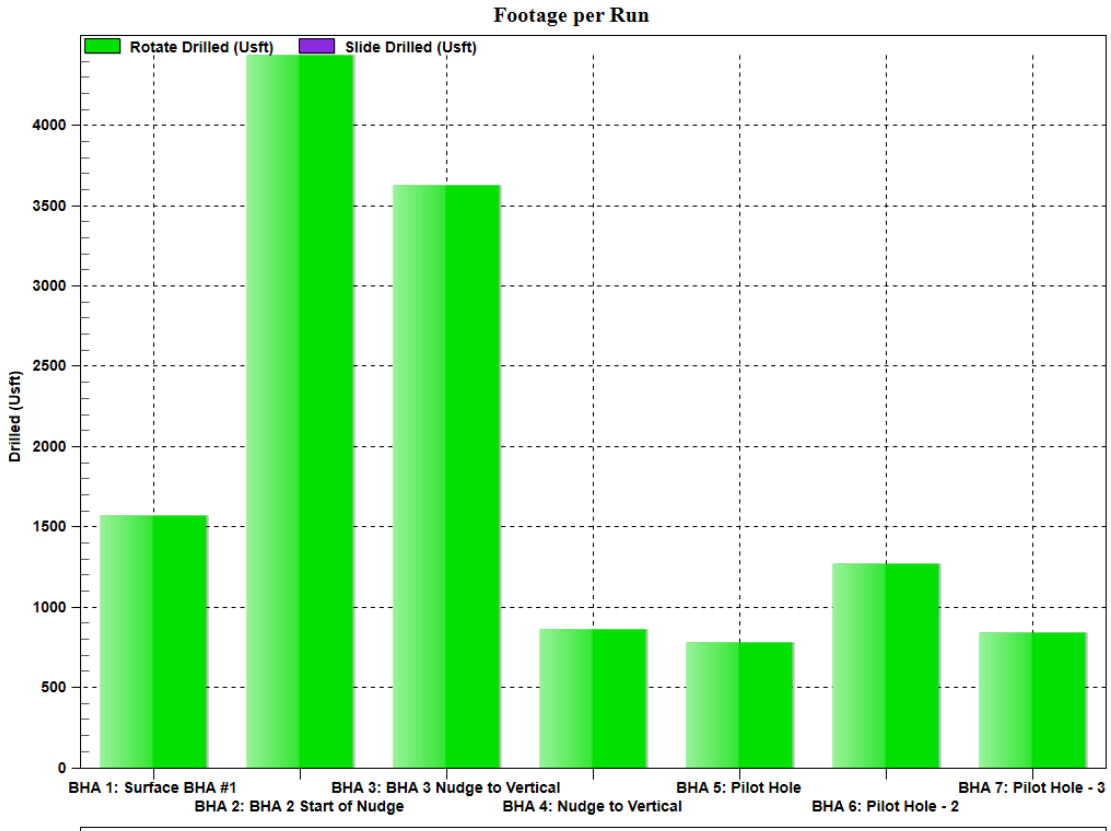
Uncle Richard State Com 213H - ST01 - Footage Per Day



Rotate (Usft)	1811.0	1603.0	0.0	840.0	0.0	0.0	0.0	0.0	0.0	0.0
Slide (Usft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Footage Per Run

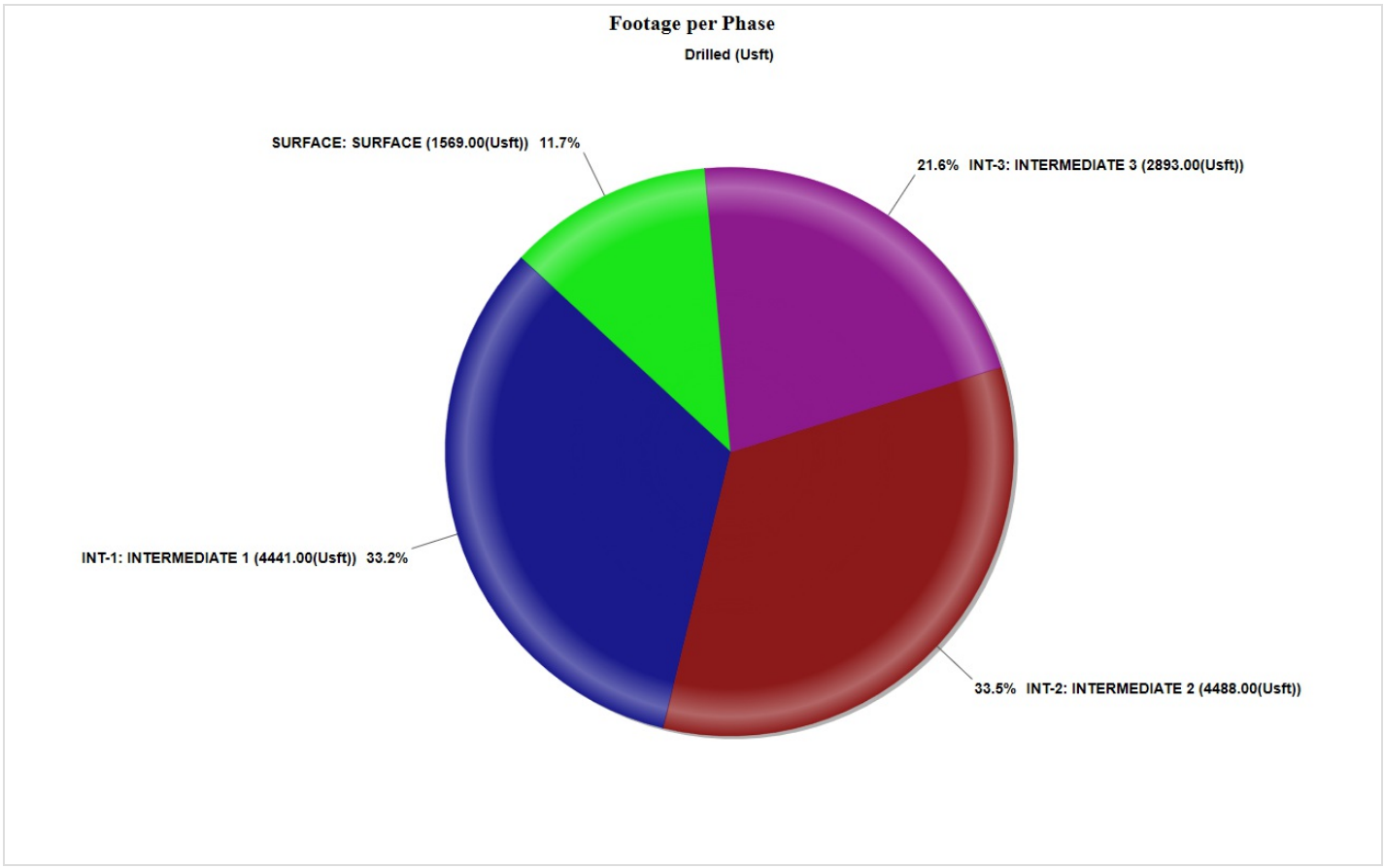
Uncle Richard State Com 213H - ST01 - Footage Per Run



Rotate Drilled (Usft)	1569.0	4441.0	3625.0	863.0	778.0	1271.0	844.0
Slide Drilled (Usft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Footage Per Phase

Uncle Richard State Com 213H - ST01 - Footage Per Phase



Section - Five
Survey Report

Uncle Richard State Com 213H - ST01 - Survey Report

ALTITUDE ENERGY PARTNERS

Operator	Matador Resources	**Local co-ord ref**	Well Centered
Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources	**TVD Reference**	Patt 256
Facility	Uncle Richard State Com Pad	**North Reference**	GRID
Well	Uncle Richard State Com 213H	**Survey Calc Method**	Minimum Curvature
Wellbore	Uncle Richard State Com 213H - ST01		

Field - Lea County, NM (NAD 27 NM E 3001) - Matador Resources

CRS	US-SPC27-EXACT / New Mexico East 3001	**Apply Scale Factor**	NO
Scale Factor	0.999909	**System Datum**	Mean Sea Level
Map Northing	426219.90 US survey foot	**Map Easting**	825078.90 US survey foot
Latitude	32° 10' 2.760178" N	**Longitude**	103° 16' 58.029261" W
Grid Convergence	0.559352	**Depth Datum->MSL**	3293.80 Usft

Facility - Uncle Richard State Com Pad

Map Northing	426219.90 US survey foot	**Map Easting**	825078.90 US survey foot
Latitude	32° 10' 2.760178" N	**Longitude**	103° 16' 58.029261" W
Vertical Uncertainty	0.00 Usft	**Horizontal Uncertainty**	0.00 Usft
Grid Convergence	0.559352		

Well - Uncle Richard State Com 213H

Local North	0.00 Usft	**Local East**	0.00 Usft
Map Northing	426219.90 US survey foot	**Map Easting**	825078.90 US survey foot
Latitude	32° 10' 2.760178" N	**Longitude**	103° 16' 58.029261" W
Depth Datum	Patt 256	**Datum Elevation**	3293.80 Usft
GL Elevation	3265.30 Usft	**Grid Convergence**	0.559352

Well bore - Uncle Richard State Com 213H - ST01

Magnetic Model	User defined	**Date**	20/12/2022
Total Field (nT)	47469.900	**Dip Angle (deg)**	59.683
Declination (deg)	6.300		
VS Origin	Well	**VS Azimuth**	359.330
VS Orgin NS	0.00 Usft	**VS Origin EW**	0.00 Usft

Survey Program - Uncle Richard State Com 213H - ST01

Depth From (Usft)	Depth To (Usft)	Survey	Survey Tool

MD	Inc	Azi	TVD	NS	EW	VS	DLS	BR	TR	TF	CL	TVD SS	Map Northing	Map Easting	Latitude	Longitude	Closure Azi	Up/Dn	Left/Right	Comments
Usft	deg	deg	Usft	Usft	Usft	Usft	deg/100Usft	deg/100Usft	deg/100Usft	deg	Usft	Usft	US survey foot	US survey foot			deg	Usft	Usft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3293.80	426219.90	825078.90	32° 10' 2.760" N	103° 16' 58.029" W	0.00	-0.00	-0.00	
193.00	0.66	256.80	193.00	-0.25	-1.08	-0.24	0.34	0.34	53.47	256.80	193.00	-3100.80	426219.65	825077.82	32° 10' 2.758" N	103° 16' 58.042" W	256.80	0.00	0.00	
224.00	0.54	253.34	223.99	-0.34	-1.40	-0.32	0.40	-0.39	-11.16	-164.92	31.00	-3069.81	426219.56	825077.50	32° 10' 2.757" N	103° 16' 58.046" W	256.45	0.00	0.00	
314.00	0.60	260.01	313.99	-0.54	-2.27	-0.51	0.10	0.07	7.41	51.25	90.00	-2979.81	426219.36	825076.63	32° 10' 2.755" N	103° 16' 58.056" W	256.60	-0.00	-0.00	
405.00	0.83	239.82	404.98	-0.95	-3.31	-0.92	0.37	0.25	-22.19	-58.00	91.00	-2888.82	426218.95	825075.59	32° 10' 2.751" N	103° 16' 58.068" W	253.90	-0.00	0.00	
484.00	0.95	249.88	483.97	-1.47	-4.41	-1.42	0.25	0.15	12.73	57.58	79.00	-2809.83	426218.43	825074.49	32° 10' 2.746" N	103° 16' 58.081" W	251.62	-0.00	0.00	
576.00	1.08	249.22	575.96	-2.04	-5.94	-1.97	0.14	0.14	-0.72	-5.47	92.00	-2717.84	426217.86	825072.96	32° 10' 2.741" N	103° 16' 58.099" W	251.08	-0.00	0.00	
666.00	0.87	248.12	665.95	-2.59	-7.37	-2.51	0.23	-0.23	-1.22	-175.46	90.00	-2627.85	426217.31	825071.53	32° 10' 2.735" N	103° 16' 58.115" W	250.62	-0.00	0.00	
757.00	0.66	233.87	756.94	-3.16	-8.43	-3.06	0.31	-0.23	-15.66	-144.80	91.00	-2536.86	426216.74	825070.47	32° 10' 2.730" N	103° 16' 58.128" W	249.47	-0.00	0.00	
850.00	0.59	231.22	849.93	-3.77	-9.24	-3.67	0.08	-0.08	-2.85	-158.88	93.00	-2443.87	426216.13	825069.66	32° 10' 2.724" N	103° 16' 58.137" W	247.78	-0.00	0.00	
942.00	0.52	221.07	941.93	-4.39	-9.88	-4.27	0.13	-0.08	-11.03	-130.45	92.00	-2351.87	426215.51	825069.02	32° 10' 2.718" N	103° 16' 58.145" W	246.07	0.00	0.00	
1034.00	0.64	242.93	1033.92	-4.93	-10.61	-4.81	0.27	0.13	23.76	72.75	92.00	-2259.88	426214.97	825068.29	32° 10' 2.712" N	103° 16' 58.153" W	245.07	0.00	-0.00	
1126.00	0.52	221.26	1125.92	-5.48	-11.35	-5.35	0.27	-0.13	-23.55	-129.23	92.00	-2167.88	426214.42	825067.55	32° 10' 2.707" N	103° 16' 58.162" W	244.21	0.00	0.00	
1219.00	0.74	232.64	1218.91	-6.16	-12.10	-6.02	0.27	0.24	12.24	35.40	93.00	-2074.89	426213.74	825066.80	32° 10' 2.700" N	103° 16' 58.171" W	243.01	0.00	0.00	
1311.00	0.79	227.63	1310.90	-6.95	-13.04	-6.80	0.09	0.05	-5.45	-55.74	92.00	-1982.90	426212.95	825065.86	32° 10' 2.693" N	103° 16' 58.182" W	241.94	0.00	0.00	
1407.00	0.73	225.52	1406.90	-7.83	-13.97	-7.66	0.07	-0.06	-2.20	-156.05	96.00	-1886.90	426212.07	825064.93	32° 10' 2.684" N	103° 16' 58.193" W	240.74	0.00	0.00	
1502.00	0.67	222.13	1501.89	-8.66	-14.77	-8.49	0.08	-0.06	-3.57	-147.07	95.00	-1791.91	426211.24	825064.13	32° 10' 2.676" N	103° 16' 58.202" W	239.62	0.00	0.00	
1608.00	0.64	242.95	1607.88	-9.39	-15.72	-9.21	0.23	-0.03	19.64	107.51	106.00	-1685.92	426210.51	825063.18	32° 10' 2.669" N	103° 16' 58.213" W	239.14	0.00	-0.00	
1693.00	0.51	236.87	1692.88	-9.81	-16.46	-9.62	0.17	-0.15	-7.15	-157.88	85.00	-1600.92	426210.09	825062.44	32° 10' 2.665" N	103° 16' 58.222" W	239.19	0.00	-0.00	
1788.00	0.32	173.84	1787.88	-10.31	-16.78	-10.11	0.49	-0.20	-66.35	-141.99	95.00	-1505.92	426209.59	825062.12	32° 10' 2.660" N	103° 16' 58.226" W	238.44	0.00	0.00	
1884.00	0.36	20.23	1883.88	-10.29	-16.65	-10.10	0.69	0.04	-160.01	-166.01	96.00	-1409.92	426209.61	825062.25	32° 10' 2.660" N	103° 16' 58.224" W	238.28	-0.00	-0.00	
1979.00	0.78	0.22	1978.87	-9.37	-16.54	-9.17	0.48	0.44	-21.06	-35.59	95.00	-1314.93	426210.53	825062.36	32° 10' 2.669" N	103° 16' 58.223" W	240.48	-0.00	-0.00	
2074.00	0.77	356.40	2073.86	-8.08	-16.58	-7.89	0.06	-0.01	4.02	-102.86	95.00	-1219.94	426211.82	825062.32	32° 10' 2.682" N	103° 16' 58.223" W	244.01	-0.00	-0.00	
2169.00	0.35	292.21	2168.86	-7.33	-16.89	-7.14	0.73	-0.44	-67.57	-152.97	95.00	-1124.94	426212.57	825062.01	32° 10' 2.689" N	103° 16' 58.227" W	246.52	0.00	-0.00	
2264.00	1.17	232.43	2263.85	-7.82	-17.93	-7.61	1.09	0.86	-62.93	-76.70	95.00	-1029.95	426212.08	825060.97	32° 10' 2.685" N	103° 16' 58.239" W	246.44	0.00	-0.00	
2359.00	2.74	221.35	2358.79	-10.11	-20.20	-9.88	1.69	1.65	-11.66	-19.12	95.00	-935.01	426209.79	825058.70	32° 10' 2.662" N	103° 16' 58.265" W	243.40	-0.00	0.00	
2454.00	4.23	221.27	2453.61	-14.45	-24.01	-14.17	1.57	1.57	-0.08	-0.23	95.00	-840.19	426205.45	825054.89	32° 10' 2.620" N	103° 16' 58.310" W	238.95	-0.00	0.00	
2549.00	4.90	225.79	2548.31	-19.91	-29.23	-19.57	0.80	0.71	4.76	30.50	95.00	-745.49	426199.99	825049.67	32° 10' 2.566" N	103° 16' 58.371" W	235.73	-0.00	0.00	
2644.00	5.05	233.61	2642.95	-25.22	-35.50	-24.81	0.73	0.16	8.23	81.44	95.00	-650.85	426194.68	825043.40	32° 10' 2.514" N	103° 16' 58.445" W	234.61	-0.00	0.00	
2738.00	5.34	240.20	2736.57	-29.85	-42.63	-29.35	0.71	0.31	7.01	67.39	94.00	-557.23	426190.05	825036.27	32° 10' 2.469" N	103° 16' 58.528" W	235.00	-0.00	-0.00	
2832.00	5.01	240.85	2830.19	-34.02	-50.01	-33.44	0.36	-0.35	0.69	170.25	94.00	-463.61	426185.88	825028.89	32° 10' 2.428" N	103° 16' 58.615" W	235.77	-0.00	-0.00	
2927.00	5.59	243.00	2924.78	-38.15	-57.75	-37.47	0.65	0.61	2.26	19.97	95.00	-369.02	426181.75	825021.15	32° 10' 2.388" N	103° 16' 58.705" W	236.55	-0.00	-0.00	
3019.00	5.79	248.02	3016.33	-41.92	-66.05	-41.14	0.58	0.22	5.46	70.62	92.00	-277.47	426177.98	825012.85	32° 10' 2.352" N	103° 16' 58.802" W	237.60	-0.00	-0.00	
3113.00	5.34	247.62	3109.88	-45.36	-74.49	-44.48	0.48	-0.48	-0.43	-175.27	94.00	-183.92	426174.54	825004.41	32° 10' 2.319" N	103° 16' 58.901" W	238.66	-0.00	-0.00	
3208.00	4.72	244.83	3204.52	-48.70	-82.11	-47.74	0.70	-0.65	-2.94	-159.85	95.00	-89.28	426171.20	824996.79	32° 10' 2.286" N	103° 16' 58.990" W	239.33	-0.00	-0.00	
3301.00	4.56	242.94	3297.21	-52.01	-88.87	-50.97	0.24	-0.17	-2.03	-137.24	93.00	3.41	426167.89	824990.03	32° 10' 2.254" N	103° 16' 59.069" W	239.66	-0.00	-0.00	
3396.00	5.41	237.84	3391.85	-56.11	-96.02	-54.99	1.01	0.89	-5.37	-30.09	95.00	98.05	426163.79	824982.88	32° 10' 2.214" N	103° 16' 59.153" W	239.70	-0.00	-0.00	
3490.00	5.50	239.48	3485.43	-60.76	-103.66	-59.54	0.19	0.10	1.74	60.82	94.00	191.63	426159.14	824975.24	32° 10' 2.169" N	103° 16' 59.242" W	239.62	-0.00	-0.00	
3584.00	6.50	244.57	3578.91	-65.33	-112.34	-64.01	1.20	1.06	5.41	30.56	94.00	285.11	426154.57	824966.56	32° 10' 2.125" N	103° 16' 59.343" W	239.82	-0.00	-0.00	
3679.00	5.80	242.05	3673.36	-69.89	-121.44	-68.47	0.79	-0.74	-2.65	-160.16	95.00	379.56	426150.01	824957.46	32° 10' 2.080" N	103° 16' 59.450" W	240.08	-0.00	-0.00	
3774.00	5.19	240.59	3767.93	-74.25	-129.42	-72.73	0.66	-0.64	-1.54	-167.82	95.00	474.13	426145.65	824949.48	32° 10' 2.038" N	103° 16' 59.543" W	240.16	-0.00	-0.00	
3869.00	5.70	242.95	3862.50	-78.51	-137.37	-76.90	0.59	0.54	2.48	24.88	95.00	568.70	426141.39	824941.53	32° 10' 1.997" N	103° 16' 59.636" W	240.25	-0.00	-0.00	
3964.00	6.50	247.53	3956.96	-82.71	-146.54	-80.99	0.99	0.84	4.82	33.61	95.00	663.16	426137.19	824932.36	32° 10' 1.956" N	103° 16' 59.743" W	240.56	-0.00	-0.00	
4058.00	6.12	244.98	4050.39	-86.86	-156.00	-85.03	0.50	-0.40	-2.71	-144.85	94.00	756.59	426133.04	824922.90	32° 10' 1.916" N	103° 16' 59.854" W	240.89	-0.00	-0.00	
4154.00	5.94	245.34	4145.86	-91.10	-165.15	-89.16	0.19	-0.19	0.38	168.31	96.00	852.06	426128.80	824913.75	32° 10' 1.875" N	103° 16' 59.961" W	241.12	-0.00	-0.00	

4248.00	5.68	243.95	4239.38	-95.17	-173.75	-93.13	0.31	-0.28	-1.48	-152.27	94.00	945.58	426124.73	824905.15	32° 10' 1.835" N	103° 17' 0.061" W	241.29	-0.00	-0.00	
4341.00	5.68	247.32	4331.92	-98.96	-182.13	-96.83	0.36	0.00	3.62	91.68	93.00	1038.12	426120.94	824896.77	32° 10' 1.799" N	103° 17' 0.159" W	241.48	-0.00	-0.00	
4435.00	6.01	248.35	4425.43	-102.57	-190.99	-100.33	0.37	0.35	1.10	18.15	94.00	1131.63	426117.33	824887.91	32° 10' 1.764" N	103° 17' 0.263" W	241.76	-0.00	-0.00	
4531.00	6.03	245.92	4520.90	-106.49	-200.27	-104.14	0.27	0.02	-2.53	-86.72	96.00	1227.10	426113.41	824878.63	32° 10' 1.726" N	103° 17' 0.371" W	242.00	-0.00	-0.00	
4625.00	6.11	246.60	4614.38	-110.49	-209.37	-108.03	0.11	0.09	0.72	42.29	94.00	1320.58	426109.41	824889.53	32° 10' 1.687" N	103° 17' 0.477" W	242.18	-0.00	-0.00	
4720.00	6.03	246.27	4708.84	-114.50	-218.57	-111.94	0.09	-0.08	-0.35	-156.60	95.00	1415.04	426105.40	824860.33	32° 10' 1.648" N	103° 17' 0.585" W	242.35	-0.00	-0.00	
4814.00	5.96	246.63	4802.33	-118.43	-227.57	-115.76	0.08	-0.07	0.38	151.94	94.00	1508.53	426101.47	824851.33	32° 10' 1.610" N	103° 17' 0.690" W	242.51	-0.00	-0.00	
4909.00	6.01	247.75	4896.81	-122.27	-236.70	-119.49	0.13	0.05	1.18	67.38	95.00	1603.01	426097.63	824842.20	32° 10' 1.573" N	103° 17' 0.797" W	242.68	-0.00	-0.00	
5004.00	5.72	249.20	4991.31	-125.83	-245.73	-122.95	0.34	-0.31	1.53	153.66	95.00	1697.51	426094.07	824833.17	32° 10' 1.539" N	103° 17' 0.902" W	242.88	-0.00	-0.00	
5099.00	5.99	241.09	5085.82	-129.91	-254.50	-126.92	0.92	0.28	-8.54	-75.99	95.00	1792.02	426089.99	824824.40	32° 10' 1.499" N	103° 17' 1.004" W	242.96	-0.00	0.00	
5194.00	6.58	237.57	5180.25	-135.22	-263.43	-132.13	0.74	0.62	-3.71	-34.91	95.00	1886.45	426084.68	824815.47	32° 10' 1.448" N	103° 17' 1.109" W	242.83	-0.00	0.00	
5289.00	6.43	236.88	5274.64	-141.05	-272.48	-137.85	0.18	-0.16	-0.73	-152.82	95.00	1980.84	426078.85	824806.42	32° 10' 1.391" N	103° 17' 1.215" W	242.63	-0.00	0.00	
5383.00	6.28	237.31	5368.06	-146.70	-281.22	-143.40	0.17	-0.16	0.46	162.61	94.00	2074.26	426073.20	824797.68	32° 10' 1.336" N	103° 17' 1.317" W	242.45	-0.00	0.00	
5479.00	5.93	236.89	5463.51	-152.25	-289.79	-148.85	0.37	-0.36	-0.44	-172.94	96.00	2169.71	426067.65	824789.11	32° 10' 1.282" N	103° 17' 1.417" W	242.28	-0.00	0.00	
5573.00	5.57	235.99	5557.04	-157.45	-297.64	-153.96	0.39	-0.38	-0.96	-166.39	94.00	2263.24	426062.45	824781.26	32° 10' 1.231" N	103° 17' 1.509" W	242.12	-0.00	0.00	
5668.00	5.09	235.92	5651.63	-162.39	-304.95	-158.81	0.51	-0.51	-0.07	-179.26	95.00	2357.83	426057.51	824773.95	32° 10' 1.183" N	103° 17' 1.595" W	241.96	-0.00	0.00	
5764.00	4.89	234.70	5747.27	-167.14	-311.82	-163.48	0.24	-0.21	-1.27	-152.66	96.00	2453.47	426052.76	824767.08	32° 10' 1.136" N	103° 17' 1.675" W	241.81	-0.00	0.00	
5858.00	4.86	236.90	5840.93	-171.63	-318.42	-167.89	0.20	-0.03	2.34	100.21	94.00	2547.13	426048.27	824760.48	32° 10' 1.093" N	103° 17' 1.753" W	241.68	-0.00	0.00	
5953.00	5.19	238.22	5935.56	-176.09	-325.45	-172.27	0.37	0.35	1.39	19.97	95.00	2641.76	426043.81	824753.45	32° 10' 1.049" N	103° 17' 1.835" W	241.58	-0.00	0.00	
6053.00	4.92	235.53	6035.17	-180.90	-332.83	-177.00	0.36	-0.27	-2.69	-140.06	100.00	2741.37	426039.00	824746.07	32° 10' 1.002" N	103° 17' 1.921" W	241.47	-0.00	0.00	
6139.00	4.98	236.81	6120.85	-185.03	-338.99	-181.05	0.15	0.07	1.49	62.13	86.00	2827.05	426034.87	824739.91	32° 10' 0.962" N	103° 17' 1.994" W	241.37	-0.00	0.00	
6234.00	4.96	236.40	6215.49	-189.56	-345.86	-185.50	0.04	-0.02	-0.43	-119.59	95.00	2921.69	426030.34	824733.04	32° 10' 0.918" N	103° 17' 2.074" W	241.27	-0.00	0.00	
6329.00	6.61	253.31	6310.01	-193.40	-354.52	-189.24	2.48	1.74	17.80	54.55	95.00	3016.21	426026.50	824724.38	32° 10' 0.881" N	103° 17' 2.175" W	241.39	-0.00	0.00	
6424.00	6.85	253.77	6404.36	-196.56	-365.20	-192.27	0.26	0.25	0.48	12.89	95.00	3110.56	426023.34	824713.70	32° 10' 0.851" N	103° 17' 2.300" W	241.71	-0.00	-0.00	
6519.00	6.56	254.32	6498.71	-199.61	-375.86	-195.20	0.31	-0.31	0.58	167.79	95.00	3204.91	426020.29	824703.04	32° 10' 0.821" N	103° 17' 2.424" W	242.03	-0.00	-0.00	
6615.00	5.97	254.53	6594.14	-202.42	-385.95	-197.89	0.62	-0.61	0.22	177.88	96.00	3300.34	426017.48	824692.95	32° 10' 0.795" N	103° 17' 2.542" W	242.32	-0.00	-0.00	
6709.00	5.56	256.06	6687.66	-204.82	-395.08	-200.19	0.47	-0.44	1.63	160.21	94.00	3393.86	426015.08	824683.82	32° 10' 0.772" N	103° 17' 2.648" W	242.60	-0.00	-0.00	
6804.00	7.19	241.83	6782.08	-208.74	-404.79	-203.99	2.38	1.72	-14.98	-51.33	95.00	3488.28	426011.16	824674.11	32° 10' 0.734" N	103° 17' 2.762" W	242.72	-0.00	-0.00	
6898.00	8.23	232.56	6875.23	-215.61	-415.32	-210.73	1.72	1.11	-9.86	-54.75	94.00	3581.43	426004.29	824663.58	32° 10' 0.667" N	103° 17' 2.885" W	242.56	-0.00	0.00	
6992.00	7.57	229.66	6968.34	-223.70	-425.38	-218.71	0.82	-0.70	-3.09	-150.30	94.00	3674.54	425996.20	824653.52	32° 10' 0.588" N	103° 17' 3.003" W	242.26	-0.00	0.00	
7087.00	6.96	246.59	7062.58	-230.04	-435.44	-224.93	2.33	-0.64	17.82	114.19	95.00	3768.78	425989.86	824643.46	32° 10' 0.526" N	103° 17' 3.120" W	242.15	-0.00	-0.00	
7180.00	6.67	247.95	7154.93	-234.31	-445.61	-229.08	0.36	-0.31	1.46	151.58	93.00	3861.13	425985.59	824633.29	32° 10' 0.485" N	103° 17' 3.239" W	242.26	-0.00	-0.00	
7274.00	6.05	246.18	7248.35	-238.36	-455.20	-233.02	0.69	-0.66	-1.88	-163.33	94.00	3954.55	425981.54	824623.70	32° 10' 0.446" N	103° 17' 3.351" W	242.36	-0.00	-0.00	
7368.00	5.30	243.53	7341.89	-242.29	-463.62	-236.86	0.84	-0.80	-2.82	-162.06	94.00	4048.09	425977.61	824615.28	32° 10' 0.407" N	103° 17' 3.450" W	242.41	-0.00	-0.00	
7461.00	4.77	242.41	7434.53	-246.00	-470.89	-240.48	0.58	-0.57	-1.20	-170.05	93.00	4140.73	425973.90	824608.01	32° 10' 0.372" N	103° 17' 3.535" W	242.42	0.00	-0.00	
7556.00	4.17	243.32	7529.24	-249.38	-477.48	-243.78	0.64	-0.63	0.96	173.71	95.00	4235.44	425970.52	824601.42	32° 10' 0.339" N	103° 17' 3.612" W	242.42	0.00	-0.00	
7650.00	3.90	244.34	7623.01	-252.30	-483.42	-246.63	0.30	-0.29	1.09	165.62	94.00	4329.21	425967.60	824595.48	32° 10' 0.310" N	103° 17' 3.681" W	242.44	0.00	-0.00	
7745.00	3.15	241.91	7717.82	-254.93	-488.63	-249.20	0.80	-0.79	-2.56	-169.94	95.00	4424.02	425964.97	824590.27	32° 10' 0.285" N	103° 17' 3.742" W	242.45	0.00	-0.00	
7839.00	1.91	270.64	7811.73	-256.13	-492.48	-250.35	1.85	-1.32	30.56	148.10	94.00	4517.93	425963.77	824586.42	32° 10' 0.273" N	103° 17' 3.787" W	242.52	0.00	-0.00	
7933.00	1.62	273.84	7905.69	-256.02	-495.37	-250.21	0.33	-0.31	3.40	162.82	94.00	4611.89	425963.88	824583.53	32° 10' 0.275" N	103° 17' 3.821" W	242.67	0.00	-0.00	
8028.00	0.52	320.67	8000.67	-255.60	-496.98	-249.77	1.39	-1.16	49.29	163.30	95.00	4706.87	425964.30	824581.92	32° 10' 0.279" N	103° 17' 3.839" W	242.78	0.00	-0.00	
8122.00	0.72	44.68	8094.67	-254.85	-496.84	-249.02	0.90	0.21	89.37	121.85	94.00	4800.87	425965.05	824582.06	32° 10' 0.286" N	103° 17' 3.838" W	242.85	-0.00	-0.00	
8217.00	0.78	47.66	8189.66	-253.99	-495.94	-248.17	0.08	0.06	3.14	34.52	95.00	4895.86	425965.91	824582.96	32° 10' 0.295" N	103° 17' 3.827" W	242.88	-0.00	-0.00	
8312.00	0.99	65.61	8284.65	-253.21	-494.71	-247.41	0.36	0.22	18.89	62.06	95.00	4990.85	425966.69	824584.19	32° 10' 0.302" N	103° 17' 3.813" W	242.90	-0.00	0.00	
8407.00	1.25	81.03	8379.63	-252.71	-492.94	-246.93	0.42	0.27	16.23	57.10	95.00	5085.83	425967.19	824585.96	32° 10' 0.307" N	103° 17' 3.792" W	242.86	-0.00	0.00	
8503.00	1.48	92.85	8475.61	-252.61	-490.67	-246.85	0.38	0.24	12.31	56.76	96.00	5181.81	425967.29	824588.23	32° 10' 0.308" N	103° 17' 3.766" W	242.76	-0.00	0.00	
8598.00	1.36	97.60	8570.58	-252.82	-488.33	-247.09	0.18	-0.13	5.00	137.91	95.00	5276.78	425967.08	824590.57	32° 10' 0.306" N	103° 17' 3.738" W	242.63	-0.00	0.00	
8693.00	1.02	84.98	8665.56	-252.89	-486.37	-247.19	0.45	-0.36	-13.28	-148.57	95.00	5371.76	425967.01	824592.53	32° 10' 0.305" N	103° 17' 3.716" W	242.53	-0.00	0.00	
8788.00	0.83	81.94	8760.54	-252.72	-484.84	-247.04	0.21	-0.20	-3.20	-167.03	95.00	5466.74	425967.18	824594.06	32° 10' 0.306" N	103° 17' 3.698" W	242.47	-0.00	0.00	
8883.00	0.81	76.64	8855.53	-252.47	-483.51	-246.80	0.08	-0.02	-5.58	-107.41	95.00	5561.73	425967.43	824595.39	32° 10' 0.309" N	103° 17' 3.682" W	242.43	-0.00	0.00	
8978.00	0.38	207.78	8950.53	-252.60	-483.00	-246.93	1.16	-0.45	138.04	164.89	95.00	5656.73	425967.30	824595.90	32° 10' 0.307" N	103° 17' 3.676" W	242.39	0.00	0.00	
9073.00	0.27	204.12	9045.53	-253.08	-483.24	-247.41	0.12	-0.12	-3.85	-171.14	95.00	5751.73	425966.82	824595.66	32° 10' 0.303" N	103° 17' 3.679" W	242.36	0.00	0.00	
9168.00	0.71	65.34	9140.53	-253.04	-482.80	-247.37	0.98	0.46	-146.08	-149.81	95.00	5846.73	425966.86	824596.10	32° 10' 0.303" N	103° 17' 3.674" W	242.34	-0.00	0.00	
9262.00	1.19	326.78	9234.52	-251.98	-482.80	-246.31	1.57	0.51	104.85	-127.01	94.00	5940.72	425967.92	824596.10	32° 10' 0.314" N	103° 17' 3.674" W	242.44	-0.00	-0.00	
9357.00	1.63	326.79	9329.49	-250.02	-484.08	-244.34	0.46	0.46	0.01	0.04	95.00	6035.69	425969.88	824594.82	32° 10' 0.333" N	103° 17' 3.689" W	242.68	-0.00	-0.00	
9451.00	1.74	346.89	9423.45	-247.51	-485.14	-241.82	0.64	0.12	21.38	89.61	94.00	6129.65	425972.39	824593.76	32° 10' 0.358" N	103° 17' 3.701" W	242.97	-0.00	-0.00	
9546.00	0.61	325.88	9518.43	-245.69	-485.75	-239.99	1.25	-1.19	-22.12	-169.42	95.00	6224.63	425974.21	824593.15	32° 10' 0.376" N	103° 17' 3.708" W	243.17	-0.00	-0.00	
9641.00	0.53	310.77	9613.42	-244.98	-486.37	-239.28	0.18	-0.08	-15.91	-125.44	95.00	6319.62	425974.92	824592.53	32° 10' 0.383" N	103° 17' 3.715" W	243.27	0.00	-0.00	
9736.00	0.66	280.95	9708.42	-244.59	-487.24	-238.88	0.35	0.14	-31.39	-82.60	95.00	6414.62	425975.31	824591.66	32° 10' 0.387" N	103° 17' 3.725" W	243.34	0.00	-0.00	
9830.00	0.66	253.36	9802.41	-244.65	-488.29	-238.92	0.33	0.00	-29.35	-103.79	94.00	6508.61	425975.25	824590.61	32° 10' 0.387" N	103° 17' 3.737" W	243.39	0.00	-0.00	
9926.00	0.76	245.15	9898.41	-245.07	-489.40	-239.33	0.15	0.10	-8.55	-49.65	96.00	6604.61	425974.83	824589.50	32° 10' 0.382" N	103° 17' 3.750" W	243.40	0.00	-0.00	
10021.00	0.72	242.01	9993.40	-245.62	-490.49	-239.86	0.06	-0.04	-3.31	-136.17	95.00	6699.60	425974.28	824588.41	32° 10' 0.377" N	103° 17' 3.763" W	243.40	0.00	-0.00	
10116.00	0.81	251.29	10088.39	-246.11	-491.66	-240.35	0.16	0.09	9.77	58.71	95.00	6794.59	425973.79	824587.24	32° 10' 0.372" N	103° 17' 3.776" W	243.41	0.00	-0.00	
10211.00	0.84	248.78	10183.38	-246.58	-492.94	-240.80	0.05	0.03	-2.64	-51.56	95.00	6889.58	425973.32	824585.96	32° 10' 0.368" N	103° 17' 3.791" W	243.42	0.00	-0.00	
10305.00	0.93	248.30	10277.37	-247.11	-494.29	-241.31	0.10	0.10	-0.51	-4.95	94.00	6983.57	425972.79	824584.61	32° 10' 0.363" N	103° 17' 3.807" W	243.44	0.00	-0.00	
10400.00	1.55	259.84	10372.35	-247.62	-496.27	-241.80	0.70	0.65	12.15	27.78	95.00	7078.55	425972.28	824582.63	32° 10' 0.358" N	103° 17' 3.830" W	243.48	0.00	-0.00	
10495.00	1.74	270.28	10467.31	-247.84	-498.98	-241.99	0.37	0.20	10.99	62.92	95.00	7173.51	425972.06	824579.92	32° 10' 0.356" N	103° 17' 3.862" W	243.59	0.00	-0.00	
10551.00	1.53	278.34	10523.28	-247.73	-500.57	-241.86	0.56	-0.38	14.39	136.38	56.00	7229.48	425972.17	824578.33	32° 10' 0.357" N	103° 17' 3.880" W	243.67	0.00	-0.00	
10714.00	1.55	4.97	10686.24	-245.22	-502.53	-239.32	1.30	0.01	53.15	132.91	163.00	7392.44	425974.68	824576.37	32° 10' 0.382" N	103° 17' 3.903" W	243.99	-0.00	-0.00	

Section - Six
Daily Drilling Activity Reports

Daily Drilling Report 01/05/2023

Job #	AEP-PB-230022	**Operator**	Matador Resources
API Job # / AFE #	30-025-50845 / 500002.850.01.001	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Report #	1	**Well**	Uncle Richard State Com 213H
Latitude:	32° 10' 2.761" N	**Longitude**	103° 16' 58.029" W
Rig:	Patterson 256	**County / State**	Lea / New Mexico
Date:	01/05/2023	**Report Time**	00:00-24:00
Daily Cost(USD)		**Well Cost(USD)**	

24Hr Summary

Picked up BHA# 1 and ran in to 120 foot. Tagged bottom there and began drilling. BHA held angle nice, and drifted along our proposed well path. We are ahead of the line which means we just reduce our nudge section. TD before midnight, will circulate and pull out of the hole for casing, cement, and nipple up.

24Hr Lookahead

After tools are down we will be on standby for rig to run casing, cement and nipple up.

Drilling Summary	24Hr (BHA 1)	Run (BHA 1)	Casing Data		Fluids			
Start Depth (Usft)	120.00	120.00	**Csg Shoe MD(Usft)**		**600**		**%Sand**	
End Depth (Usft)	1689.00	1689.00	**OD (in)**		**300**		**%Solids**	
Total Drilled (Usft)	1569	1569	**Weight (lb/ft)**		**200**		**Weight (ppg)**	9.10
Slide Drilled (Usft)			**Bit Data**		**100**		**Fluid Loss**	
Rotary Drilled (Usft)	1569	1569	**SN**	A290782	**6**		**PH**	8.00
Drlg/Circ Hrs	11.33 / 3.33	11.33 / 3.33	**Bit #**	1	**3**		**Mud Type**	WBM
Slide Drilling Hrs			**OD (in)**	17.500	**10s Gel**	1.00	**Oil/Water**	
Rotary Drilling Hrs	11.33	11.33	**TFA**	1.035	**Temp(F)**	0.00		
ROP Rot/Slide (Usft/hr)	138.44 / 0.00	138.44 / 0.00	**Grade In**	0-1-CT-G-X-I-WT-TD	**PV**	1.00		
BRT Hrs	16.00	16.00	**Grade Out**	1-3-CT-S-X-I-BT-TD	**YP**	3.00		
%Slide			**Make**	Reed Hycalog	**Viscosity**	30.00		
%Rotary	100.00	100.00	**Model**	TK69-B8	**Chlorides**	400.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Steve Tacheny	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Ben Brimhall										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
17.5 Reed TK69-B9 6x15s TFA 1.035 - 1.03 (6x15)	17.500					1.50	1.50
9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/17 Stab	8.780					35.90	37.40
17 Stabilizer	8.250	3.375				5.93	43.33
8 Cushion Sub	7.960	2.875				13.24	56.57
UBHO Sub	8.000	3.500				3.01	59.58
8 NMDC - Tool Carrier	7.940	3.750				30.30	89.88
8 NMDC	8.060	3.750				28.54	118.42
8 Drill Collars 1 stand (3 joints)	8.000	3.750				87.96	206.38
XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875				3.23	209.61
6.5 Drill Collars 3 stands (9 joints)	6.500	3.000				260.40	470.01
XO 4 1/2 XH pin to CET 43 Box	6.563	2.625				3.65	473.66
10 stands (30 joints) HWDP	4.500	3.000				919.12	1392.78
							1392.78

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP9002	Altitude	AEP	7/8	8.43	1.75	0.18	ADJ	7.0

Surveys

MD (Usft)	INC	AZI	TVD (Usft)	NS (Usft)	EW (Usft)	DLS (deg/100Usft)	TFO	VS (Usft)	BR (deg/100Usft)	TR (deg/100Usft)	CL (Usft)
193.00	0.66	256.80	193.00	-0.25	-1.08	0.34	256.80	-0.24	0.34	0.00	193.00
224.00	0.54	253.34	223.99	-0.34	-1.40	0.40	-164.92	-0.32	-0.39	0.00	31.00
314.00	0.60	260.01	313.99	-0.54	-2.27	0.10	51.25	-0.51	0.07	0.00	90.00
405.00	0.83	239.82	404.98	-0.95	-3.31	0.37	-58.00	-0.92	0.25	0.00	91.00
484.00	0.95	249.88	483.97	-1.47	-4.41	0.25	57.58	-1.42	0.15	0.00	79.00
576.00	1.08	249.22	575.96	-2.04	-5.94	0.14	-5.47	-1.97	0.14	0.00	92.00
666.00	0.87	248.12	665.95	-2.59	-7.37	0.23	-175.46	-2.51	-0.23	0.00	90.00
757.00	0.66	233.87	756.94	-3.16	-8.43	0.31	-144.80	-3.06	-0.23	0.00	91.00
850.00	0.59	231.22	849.93	-3.77	-9.24	0.08	-158.88	-3.67	-0.08	0.00	93.00
942.00	0.52	221.07	941.93	-4.39	-9.88	0.13	-130.45	-4.27	-0.08	0.00	92.00
1034.00	0.64	242.93	1033.92	-4.93	-10.61	0.27	72.75	-4.81	0.13	0.00	92.00
1126.00	0.52	221.26	1125.92	-5.48	-11.35	0.27	-129.23	-5.35	-0.13	0.00	92.00
1219.00	0.74	232.64	1218.91	-6.16	-12.10	0.27	35.40	-6.02	0.24	0.00	93.00
1311.00	0.79	227.63	1310.90	-6.95	-13.04	0.09	-55.74	-6.80	0.05	0.00	92.00
1407.00	0.73	225.52	1406.90	-7.83	-13.97	0.07	-156.05	-7.66	-0.06	0.00	96.00
1502.00	0.67	222.13	1501.89	-8.66	-14.77	0.08	-147.07	-8.49	-0.06	0.00	95.00
1608.00	0.64	242.95	1607.88	-9.39	-15.72	0.23	107.51	-9.21	-0.03	0.00	106.00

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	138.44	27.75	44.00	145.00	562.50	1522.50	1070.50	0.00	87.75	82.75	77.75	13200.00	0.00
Run	138.44	27.75	44.00	145.00	562.50	1522.50	1070.50	0.00	87.75	82.75	77.75	13200.00	0.00

MWD Data							
Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics					
Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity									
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/05/2023	00:00	07:00	7.00	120.00	120.00	0.00	SURFACE		24B	Wait for rig move and rig up prior to spudding surface.
01/05/2023	07:00	07:15	0.25	120.00	120.00	0.00	SURFACE		21C	Safety meeting prior to picking up BHA# 1
01/05/2023	07:15	08:00	0.75	120.00	120.00	0.00	SURFACE	1: Surface BHA#1	6O	Pick up BHA# 1
01/05/2023	08:00	08:20	0.33	120.00	150.00	30.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/112.00 t/150.00, w/WOB 5,Flow 400.00, RPM20, Press 600.00, Tq 8000.00, ROP 114.00, Diff 120.00
01/05/2023	08:20	08:35	0.25	150.00	150.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	08:35	08:55	0.33	150.00	213.00	63.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/150.00 t/213.00, w/WOB 5,Flow 400.00, RPM20, Press 600.00, Tq 8000.00, ROP 189.00, Diff 120.00
01/05/2023	08:55	09:00	0.08	213.00	213.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	09:00	09:20	0.33	213.00	274.00	61.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/213.00 t/274.00, w/WOB 10,Flow 400.00, RPM20, Press 600.00, Tq 8000.00, ROP 183.00, Diff 120.00
01/05/2023	09:20	09:25	0.08	274.00	274.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	09:25	09:35	0.17	274.00	305.00	31.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/274.00 t/305.00, w/WOB 25,Flow 400.00, RPM20, Press 600.00, Tq 8000.00, ROP 186.00, Diff 120.00
01/05/2023	09:35	09:40	0.08	305.00	305.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	09:40	10:10	0.50	305.00	395.00	90.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/305.00 t/395.00, w/WOB 25,Flow 400.00, RPM20, Press 600.00, Tq 8000.00, ROP 180.00, Diff 120.00
01/05/2023	10:10	10:25	0.25	395.00	395.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	10:25	11:00	0.58	395.00	486.00	91.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/395.00 t/486.00, w/WOB 25,Flow 400.00, RPM20, Press 600.00, Tq 8000.00, ROP 156.00, Diff 120.00
01/05/2023	11:00	11:10	0.17	486.00	486.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	11:10	11:45	0.58	486.00	579.00	93.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/486.00 t/579.00, w/WOB 25,Flow 400.00, RPM20, Press 600.00, Tq 8000.00, ROP 159.43, Diff 120.00
01/05/2023	11:45	12:10	0.42	579.00	579.00	0.00	SURFACE	1: Surface BHA#1	5A	Circulate sweep
01/05/2023	12:10	13:30	1.33	579.00	579.00	0.00	SURFACE	1: Surface BHA#1	6C	Short trip for collars
01/05/2023	13:30	13:35	0.08	579.00	579.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey
01/05/2023	13:35	14:00	0.42	579.00	657.00	78.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/579.00 t/657.00, w/WOB 30,Flow 650.00, RPM50, Press 1950, Tq 16000.00, ROP 187.20, Diff 700.00
01/05/2023	14:00	14:10	0.17	657.00	657.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	14:10	14:40	0.50	657.00	747.00	90.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/657.00 t/747.00, w/WOB 30,Flow 650.00, RPM50, Press 1950, Tq 16000.00, ROP 180.00, Diff 700.00
01/05/2023	14:40	14:50	0.17	747.00	747.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	14:50	15:25	0.58	747.00	838.00	91.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/747.00 t/838.00, w/WOB 30,Flow 650.00, RPM50, Press 1950, Tq 16000.00, ROP 156.00, Diff 700.00
01/05/2023	15:25	15:30	0.08	838.00	838.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	15:30	16:00	0.50	838.00	931.00	93.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/838.00 t/931.00, w/WOB 30,Flow 650.00, RPM50, Press 1950, Tq 16000.00, ROP 186.00, Diff 700.00
01/05/2023	16:00	16:05	0.08	931.00	931.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	16:05	16:35	0.50	931.00	1023.00	92.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/931.00 t/1023.00, w/WOB 35,Flow 650.00, RPM60, Press 2050, Tq 16000.00, ROP 184.00, Diff -12490.00
01/05/2023	16:35	16:40	0.08	1023.00	1023.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	16:40	17:15	0.58	1023.00	1115.00	92.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/1023.00 t/1115.00, w/WOB 35.00,Flow 650.00, RPM60.00, Press 2050.00, Tq 16000.00, ROP 157.71, Diff 600.00
01/05/2023	17:15	17:20	0.08	1115.00	1115.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	17:20	18:05	0.75	1115.00	1207.00	92.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/1115.00 t/1207.00, w/WOB 35.00,Flow 650.00, RPM60.00, Press 2050.00, Tq 16000.00, ROP 122.67, Diff 600.00
01/05/2023	18:05	18:10	0.08	1207.00	1207.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	18:10	19:00	0.83	1207.00	1300.00	93.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/1207.00 t/1300.00, w/WOB 35.00,Flow 650.00, RPM60.00, Press 2050.00, Tq 16000.00, ROP 111.60, Diff 600.00
01/05/2023	19:00	19:05	0.08	1300.00	1300.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	19:05	19:50	0.75	1300.00	1392.00	92.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/1300.00 t/1392.00, w/WOB 35.00,Flow 650.00, RPM60.00, Press 2050.00, Tq 16000.00, ROP 122.67, Diff 600.00
01/05/2023	19:50	19:55	0.08	1392.00	1392.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	19:55	20:50	0.92	1392.00	1488.00	96.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/1392.00 t/1488.00, w/WOB 35.00,Flow 650.00, RPM60.00, Press 2050.00, Tq 16000.00, ROP 104.73, Diff 600.00
01/05/2023	20:50	20:55	0.08	1488.00	1488.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	20:55	21:35	0.67	1488.00	1583.00	95.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/1488.00 t/1583.00, w/WOB 35.00,Flow 650.00, RPM60.00, Press 2050.00, Tq 16000.00, ROP 142.50, Diff 600.00
01/05/2023	21:35	21:40	0.08	1583.00	1583.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	21:40	22:50	1.17	1583.00	1677.00	94.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/1583.00 t/1677.00, w/WOB 35.00,Flow 650.00, RPM60.00, Press 2050.00, Tq 16000.00, ROP 80.57, Diff 600.00
01/05/2023	22:50	22:55	0.08	1677.00	1677.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey & Connection
01/05/2023	22:55	23:15	0.33	1677.00	1689.00	12.00	SURFACE	1: Surface BHA#1	2A	Rotary Drill f/1677.00 t/1689.00, w/WOB 35.00,Flow 650.00, RPM60.00, Press 2050.00, Tq 16000.00, ROP 36.00, Diff 600.00
01/05/2023	23:15	23:20	0.08	1689.00	1689.00	0.00	SURFACE	1: Surface BHA#1	5A	Survey
01/05/2023	23:20	24:00	0.67	1689.00	1689.00	0.00	SURFACE	1: Surface BHA#1	5A	Circulate to clean hole for casing

Daily Drilling Report 01/06/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	2	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/06/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Circulated, pulled out of the hole, and racked back directional tools. The rig continued to run casing, cement, and began nippling up.

24Hr Lookahead

rig is finishing up nippling up and just began pressure testing. As I was about to click send, tools just showed up 4 hours before we needed them. They are here. Just going to confirm everything is the right size. Should be picking up tools this morning.

Drilling Summary	24Hr (BHA 1)	Run (BHA 1)	Casing Data		Fluids			
Start Depth (Usft)	1689.00	120.00	Csg Shoe MD(Usft)		600		%Sand	
End Depth (Usft)	1689.00	1689.00	OD (in)		300		%Solids	
Total Drilled (Usft)		1569	Weight (lb/ft)		200		Weight (ppg)	9.10
Slide Drilled (Usft)			Bit Data		100		Fluid Loss	
Rotary Drilled (Usft)		1569	SN	A290782	6		PH	8.00
Drlg/Circ Hrs		11.33 / 4.25	Bit #	1	3		Mud Type	WBM
Slide Drilling Hrs			OD (in)	17.500	10s Gel	1.00	Oil/Water	
Rotary Drilling Hrs		11.33	TFA	1.035	Temp(F)	0.00		
ROP Rot/Slide (Usft/hr)		138.44 / 0.00	Grade In	0-1-CT-G-X-I-WT-TD	PV	1.00		
BRT Hrs	4.00	20.00	Grade Out	1-3-CT-S-X-I-BT-TD	YP	3.00		
%Slide			Make	Reed Hycalog	Viscosity	30.00		
%Rotary		100.00	Model	TK69-B8	Chlorides	400.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Steve Tacheny	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Ben Brimhall										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
17.5 Reed TK69-B9 6x15s TFA 1.035 - 1.03 (6x15)	17.500					1.50	1.50
9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/17 Stab	8.780					35.90	37.40
17 Stabilizer	8.250	3.375				5.93	43.33
8 Cushion Sub	7.960	2.875				13.24	56.57
UBHO Sub	8.000	3.500				3.01	59.58
8 NMDC - Tool Carrier	7.940	3.750				30.30	89.88
8 NMDC	8.060	3.750				28.54	118.42
8 Drill Collars 1 stand (3 joints)	8.000	3.750				87.96	206.38
XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875				3.23	209.61
6.5 Drill Collars 3 stands (9 joints)	6.500	3.000				260.40	470.01
XO 4 1/2 XH pin to CET 43 Box	6.563	2.625				3.65	473.66
10 stands (30 joints) HWDP	4.500	3.000				919.12	1392.78
							1392.78

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP9002	Altitude	AEP	7/8	8.43	1.75	0.18	ADJ	7.0

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	27.75	44.00	145.00	562.50	1522.50	1070.50	0.00	87.75	82.75	77.75	13200.00	0.00
Run	138.44	27.75	44.00	145.00	562.50	1522.50	1070.50	0.00	87.75	82.75	77.75	13200.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/06/2023	00:00	00:55	0.92	1689.00	1689.00	0.00	SURFACE	1: Surface BHA #1	5A	Circulate hole clean
01/06/2023	00:55	03:00	2.08	1689.00	1689.00	0.00	SURFACE	1: Surface BHA #1	6B	POOH to run casing
01/06/2023	03:00	03:05	0.08	1689.00	1689.00	0.00	SURFACE	1: Surface BHA #1	21C	Laying out directional
01/06/2023	03:05	04:00	0.92	1689.00	1689.00	0.00	SURFACE	1: Surface BHA #1	6P	Rack tools for casing
01/06/2023	04:00	10:00	6.00	1689.00	1689.00	0.00	SURFACE		24A	And Rig Up
01/06/2023	10:00	11:00	1.00	1689.00	1689.00	0.00	SURFACE		5A	Circulate casing on bottom
01/06/2023	11:00	14:30	3.50	1689.00	1689.00	0.00	SURFACE		12E	Cement casing
01/06/2023	14:30	24:00	9.50	1689.00	1689.00	0.00	SURFACE		1B	Nipple Up

Daily Drilling Report 01/07/2023

Job #	AEP-PB-230022	**Operator**	Matador Resources
API Job # / AFE #	30-025-50845 / 500002.850.01.001	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Report #	3	**Well**	Uncle Richard State Com 213H
Latitude:	32° 10' 2.761" N	**Longitude**	103° 16' 58.029" W
Rig:	Patterson 256	**County / State**	Lea / New Mexico
Date:	01/07/2023	**Report Time**	00:00-24:00
Daily Cost(USD)		**Well Cost(USD)**	

24Hr Summary

Rig finished pressure testing and prepared for BHA # 2. Started picking up tools around 1800, and ran into every possible problem one could think of. By midnight we were still unable to sink the first stand of tools. No daily charge for this day.

24Hr Lookahead

Got the rig leveled and the stack straight. Installed a new wear bushing and bit and motor slid through with no issues. Tools below the rotary table and running in the hole for drill out.

Drilling Summary	24Hr (BHA 2)	Run (BHA 2)	Casing Data		Fluids			
Start Depth (Usft)	1689.00	1689.00	**Csg Shoe MD(Usft)**		**600**		**%Sand**	
End Depth (Usft)	1689.00	1689.00	**OD (in)**		**300**		**%Solids**	
Total Drilled (Usft)			**Weight (lb/ft)**		**200**		**Weight (ppg)**	9.10
Slide Drilled (Usft)			**Bit Data**		**100**		**Fluid Loss**	
Rotary Drilled (Usft)			**SN**	5334284	**6**		**PH**	8.00
Drlg/Circ Hrs			**Bit #**	2	**3**		**Mud Type**	WBM
Slide Drilling Hrs			**OD (in)**	12.250	**10s Gel**	1.00	**Oil/Water**	
Rotary Drilling Hrs			**TFA**	1.353	**Temp(F)**	0.00		
ROP Rot/Slide (Usft/hr)			**Grade In**	New	**PV**	1.00		
BRT Hrs			**Grade Out**	1-1-BT-S-X-I-CT-TD	**YP**	3.00		
%Slide			**Make**	Baker Hughes	**Viscosity**	30.00		
%Rotary			**Model**	D507VTX	**Chlorides**	400.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Steve Tacheny	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Ben Brimhall										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
12.25 Baker D507VTX PDC - 1.35 (9x14)	12.250					1.50	1.50
9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/11.75 SLV Stab (BFF)	8.780					35.90	37.40
11.75" HS NM 4 Blade Stabilizer (BFF)	8.400	2.970				3.65	41.05
8 Cushion Sub	7.960	2.875				13.24	54.29
Shock Meiser	8.000	3.500				3.01	57.30
8 NMDC - Tool Carrier	7.940	3.750				30.30	87.60
8 NMDC	8.060	3.750				28.54	116.14
8 Drill Collars 1 stand (3 joints)	8.000	3.750				87.96	204.10
XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875				3.23	207.33
6.5 Drill Collars 3 stands (9 joints)	6.500	3.000				260.40	467.73
XO 4 1/2 XH pin to CET 43 Box	6.563	2.625				3.65	471.38
10 stands (30 joints) HWDP	5.000	3.000				919.12	1390.50
							1390.50

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP9002	Altitude	AEP	7/8	8.49	1.75	0.18	FBH	7

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	27.75	44.00	145.00	562.50	1522.50	1070.50	0.00	87.75	82.75	77.75	13200.00	0.00
Run	0.00	27.75	44.00	145.00	562.50	1522.50	1070.50	0.00	87.75	82.75	77.75	13200.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				**Orifice**		**Plug In Date**	
Driver				**Orifice Type**		**Plug In Time**	
Directional				**Pulse Width**		**Plug Out Date**	
Battery 1				**Data Rate**		**Plug Out Time**	
Battery 2				**EM Power**		**Plug In Hrs Tot**	0.00
Battery 3				**EM Freq**		**Plug In Hrs Day**	0.00
Gamma				**Fin Size (in)**		**Circ Hrs Total**	0.00
Helix				**Non Mag Above/Below**	0.00 / 0.00	**Circ Hours Day**	0.00

Magnetics

Total Field	47469.900	**Declination**	6.300	**Total Correction**	5.741
Dip Angle	59.683	**Grid Convergence**	0.559	**North Ref**	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/07/2023	00:00	18:00	18.00	1689.00	1689.00	0.00	SURFACE		24B	Nipple Up/BOP/Test ops
01/07/2023	18:00	18:05	0.08	1689.00	1689.00	0.00	SURFACE		21C	Pre-Job Safety meeting with directional
01/07/2023	18:05	24:00	5.92	1689.00	1689.00	0.00	INT-1	2: BHA 2 Start of Nudge	6O	Start to pick up BHA # 2.

Daily Drilling Report 01/08/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	4	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/08/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Finally got tools picked up and ran in the hole. Circulated, displaced to diesel brine and drilled out. Kicked off the nudge and began tangent. BHA is holding enough to rotate 2 or 3 stands before having to bump it up again. Rotating ahead with no problems.

24Hr Lookahead

Rotate ahead, should be close to TD by midnight of the 9th.

Drilling Summary	24Hr (BHA 2)	Run (BHA 2)	Casing Data		Fluids			
Start Depth (Usft)	1689.00	1689.00	Csg Shoe MD(Usft)		600	30.00	%Sand	
End Depth (Usft)	3500.00	3500.00	OD (in)		300	20.00	%Solids	6.00
Total Drilled (Usft)	1811	1811	Weight (lb/ft)		200	16.00	Weight (ppg)	8.65
Slide Drilled (Usft)		290	Bit Data		100	12.00	Fluid Loss	100.00
Rotary Drilled (Usft)	1811	1521	SN	5334284	6	5.00	PH	8.50
Drlg/Circ Hrs	14.92 / 4.08	14.92 / 4.08	Bit #	2	3	4.00	Mud Type	DB
Slide Drilling Hrs		5.00	OD (in)	12.250	10s Gel	1.00	Oil/Water	
Rotary Drilling Hrs	14.92	9.92	TFA	1.353	Temp(F)	110.00		
ROP Rot/Slide (Usft/hr)	121.41 / 0.00	153.38 / 58.00	Grade In	New	PV	10.00		
BRT Hrs	21.00	21.00	Grade Out	1-1-BT-S-X-I-CT-TD	YP	10.00		
%Slide		16.01	Make	Baker Hughes	Viscosity	38.00		
%Rotary	100.00	83.99	Model	D507VTX	Chlorides	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Steve Tacheny	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Ben Brimhall										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
12.25 Baker D507VTX PDC - 1.35 (9x14)	12.250					1.50	1.50
9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/11.75 SLV Stab (BFF)	8.780					35.90	37.40
11.75" HS NM 4 Blade Stabilizer (BFF)	8.400	2.970				3.65	41.05
8 Cushion Sub	7.960	2.875				13.24	54.29
Shock Meiser	8.000	3.500				3.01	57.30
8 NMDC - Tool Carrier	7.940	3.750				30.30	87.60
8 NMDC	8.060	3.750				28.54	116.14
8 Drill Collars 1 stand (3 joints)	8.000	3.750				87.96	204.10
XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875				3.23	207.33
6.5 Drill Collars 3 stands (9 joints)	6.500	3.000				260.40	467.73
XO 4 1/2 XH pin to CET 43 Box	6.563	2.625				3.65	471.38
10 stands (30 joints) HWDP	5.000	3.000				919.12	1390.50
							1390.50

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP9002	Altitude	AEP	7/8	8.49	1.75	0.18	FBH	7

Surveys

MD (Usft)	INC	AZI	TVD (Usft)	NS (Usft)	EW (Usft)	DLS (deg/100Usft)	TFO	VS (Usft)	BR (deg/100Usft)	TR (deg/100Usft)	CL (Usft)
1693.00	0.51	236.87	1692.88	-9.81	-16.46	0.17	-157.88	-9.62	-0.15	0.00	85.00
1788.00	0.32	173.84	1787.88	-10.31	-16.78	0.49	-141.99	-10.11	-0.20	0.00	95.00
1884.00	0.36	20.23	1883.88	-10.29	-16.65	0.69	-166.01	-10.10	0.04	0.00	96.00
1979.00	0.78	0.22	1978.87	-9.37	-16.54	0.48	-35.59	-9.17	0.44	0.00	95.00
2074.00	0.77	356.40	2073.86	-8.08	-16.58	0.06	-102.86	-7.89	-0.01	0.00	95.00
2169.00	0.35	292.21	2168.86	-7.33	-16.89	0.73	-152.97	-7.14	-0.44	0.00	95.00
2264.00	1.17	232.43	2263.85	-7.82	-17.93	1.09	-76.70	-7.61	0.86	0.00	95.00
2359.00	2.74	221.35	2358.79	-10.11	-20.20	1.69	-19.12	-9.88	1.65	0.00	95.00
2454.00	4.23	221.27	2453.61	-14.45	-24.01	1.57	-0.23	-14.17	1.57	-0.08	95.00
2549.00	4.90	225.79	2548.31	-19.91	-29.23	0.80	30.50	-19.57	0.71	4.76	95.00
2644.00	5.05	233.61	2642.95	-25.22	-35.50	0.73	81.44	-24.81	0.16	8.23	95.00
2738.00	5.34	240.20	2736.57	-29.85	-42.63	0.71	67.39	-29.35	0.31	7.01	94.00
2832.00	5.01	240.85	2830.19	-34.02	-50.01	0.36	170.25	-33.44	-0.35	0.69	94.00
2927.00	5.59	243.00	2924.78	-38.15	-57.75	0.65	19.97	-37.47	0.61	2.26	95.00
3019.00	5.79	248.02	3016.33	-41.92	-66.05	0.58	70.62	-41.14	0.22	5.46	92.00
3113.00	5.34	247.62	3109.88	-45.36	-74.49	0.48	-175.27	-44.48	-0.48	-0.43	94.00
3208.00	4.72	244.83	3204.52	-48.70	-82.11	0.70	-159.85	-47.74	-0.65	-2.94	95.00
3301.00	4.56	242.94	3297.21	-52.01	-88.87	0.24	-137.24	-50.97	-0.17	-2.03	93.00
3396.00	5.41	237.84	3391.85	-56.11	-96.02	1.01	-30.09	-54.99	0.89	-5.37	95.00

Drilling Parameters													
	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	121.41	28.00	51.67	174.00	680.00	2637.50	1970.00	0.00	140.00	132.30	124.50	7600.00	0.00
Run	121.41	28.00	51.67	174.00	680.00	2637.50	1970.00	0.00	140.00	132.30	124.50	7600.00	0.00

MWD Data							
Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics					
Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/08/2023	00:00	03:00	3.00	1689.00	1689.00	0.00	INT-1	2: BHA 2 Start of Nudge	6O	Picked up BHA#2
01/08/2023	03:00	05:00	2.00	1689.00	1689.00	0.00	INT-1	2: BHA 2 Start of Nudge	6A	RIH and install rotating head
01/08/2023	05:00	05:30	0.50	1689.00	1689.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Displace mud and fill gas buster
01/08/2023	05:30	06:55	1.42	1689.00	1689.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	D/O cement & float equipt
01/08/2023	06:55	07:20	0.42	1689.00	1699.00	10.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/1689.00 t/1699.00, w/WOB 25.00,Flow 500.00, RPM 30.00, Press 1400.00, Tq 7000.00, ROP 24.00, Diff 300.00
01/08/2023	07:20	08:00	0.67	1699.00	1699.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	FIT
01/08/2023	08:00	08:55	0.92	1699.00	1770.00	71.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/1699.00 t/1770.00, w/WOB 25.00,Flow 500.00, RPM 30.00, Press 1400.00, Tq 7000.00, ROP 77.45, Diff 300.00
01/08/2023	08:55	09:00	0.08	1770.00	1770.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	09:00	09:25	0.42	1770.00	1865.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/1770.00 t/1865.00, w/WOB 25.00,Flow 500.00, RPM 30.00, Press 1400.00, Tq 7000.00, ROP 228.00, Diff 300.00
01/08/2023	09:25	09:30	0.08	1865.00	1865.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	09:30	09:35	0.08	1865.00	1875.00	10.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/1865.00 t/1875.00, w/WOB 25.00,Flow 500.00, RPM 30.00, Press 1400.00, Tq 7000.00, ROP 120.00, Diff 300.00
01/08/2023	09:35	09:50	0.25	1875.00	1890.00	15.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/1875.00 t/1890.00, TF M, w/WOB 25.00,Flow 700.00, Press 2350, Tq 7000.00, ROP 60.00, Diff 350.00
01/08/2023	09:50	10:25	0.58	1890.00	1961.00	71.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/1890.00 t/1961.00, w/WOB 25.00,Flow 700.00, RPM 0.00, Press 2650, Tq 7000.00, ROP 121.71, Diff 650.00
01/08/2023	10:25	10:30	0.08	1961.00	1961.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	10:30	11:20	0.83	1961.00	2056.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/1961.00 t/2056.00, w/WOB 25.00,Flow 700.00, RPM 0.00, Press 2650, Tq 7000.00, ROP 114.00, Diff 650.00
01/08/2023	11:20	11:25	0.08	2056.00	2056.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	11:25	11:55	0.50	2056.00	2151.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2056.00 t/2151.00, w/WOB 25.00,Flow 700.00, RPM 0.00, Press 2650, Tq 7000.00, ROP 190.00, Diff 650.00
01/08/2023	11:55	12:00	0.08	2151.00	2151.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	12:00	12:05	0.08	2151.00	2154.00	3.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2151.00 t/2154.00, w/WOB 25.00,Flow 700.00, RPM 0.00, Press 2650, Tq 7000.00, ROP 36.00, Diff 650.00
01/08/2023	12:05	12:20	0.25	2154.00	2169.00	15.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/2154.00 t/2169.00, TF M, w/WOB 25.00,Flow 700.00, Press 2650, Tq 7000.00, ROP 60.00, Diff 650.00
01/08/2023	12:20	12:45	0.42	2169.00	2246.00	77.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2169.00 t/2246.00, w/WOB 25.00,Flow 700.00, RPM 0.00, Press 2650, Tq 7000.00, ROP 184.80, Diff 650.00
01/08/2023	12:45	12:50	0.08	2246.00	2246.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	12:50	12:55	0.08	2246.00	2249.00	3.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2246.00 t/2249.00, w/WOB 25.00,Flow 700.00, RPM 0.00, Press 2650, Tq 7000.00, ROP 36.00, Diff 650.00
01/08/2023	12:55	13:20	0.42	2249.00	2279.00	30.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/2249.00 t/2279.00, TF M, w/WOB 25.00,Flow 700.00, Press 2650, Tq 7000.00, ROP 72.00, Diff 650.00
01/08/2023	13:20	13:35	0.25	2279.00	2341.00	62.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2279.00 t/2341.00, w/WOB 25.00,Flow 700.00, RPM 0.00, Press 2650, Tq 7000.00, ROP 248.00, Diff 650.00
01/08/2023	13:35	13:40	0.08	2341.00	2341.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	13:40	13:45	0.08	2341.00	2344.00	3.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2341.00 t/2344.00, w/WOB 25.00,Flow 700.00, RPM 0.00, Press 2650, Tq 7000.00, ROP 36.00, Diff 650.00
01/08/2023	13:45	14:20	0.58	2344.00	2384.00	40.00	INT-1	2: BHA 2 Start of Nudge	2B	Rotary Drill f/2344.00 t/2384.00, w/WOB 25.00,Flow 700.00, RPM 0.00, Press 2650, Tq 7000.00, ROP 68.57, Diff 650.00
01/08/2023	14:20	14:40	0.33	2384.00	2436.00	52.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2384.00 t/2436.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 156.00, Diff 750.00
01/08/2023	14:40	15:15	0.58	2436.00	2439.00	3.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2436.00 t/2439.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 5.14, Diff 750.00
01/08/2023	15:15	15:50	0.58	2439.00	2479.00	40.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/2439.00 t/2479.00, TF M, w/WOB 30.00,Flow 700.00, Press 2850.00, Tq 8000.00, ROP 68.57, Diff 750.00
01/08/2023	15:50	16:10	0.33	2479.00	2531.00	52.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2479.00 t/2531.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 156.00, Diff 750.00
01/08/2023	16:10	16:15	0.08	2531.00	2531.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	16:15	16:50	0.58	2531.00	2626.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2531.00 t/2626.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 162.86, Diff 750.00
01/08/2023	16:50	16:55	0.08	2626.00	2626.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	16:55	17:00	0.08	2626.00	2629.00	3.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2626.00 t/2629.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 36.00, Diff 750.00
01/08/2023	17:00	17:35	0.58	2629.00	2669.00	40.00	INT-1	2: BHA 2 Start of Nudge	2B	Rotary Drill f/2629.00 t/2669.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 68.57, Diff 750.00
01/08/2023	17:35	17:50	0.25	2669.00	2721.00	52.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2669.00 t/2721.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 208.00, Diff 750.00
01/08/2023	17:50	17:55	0.08	2721.00	2721.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	17:55	18:15	0.33	2721.00	2815.00	94.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2721.00 t/2815.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 282.00, Diff 750.00
01/08/2023	18:15	18:20	0.08	2815.00	2815.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	18:20	18:45	0.42	2815.00	2909.00	94.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2815.00 t/2909.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 225.60, Diff 750.00
01/08/2023	18:45	18:50	0.08	2909.00	2909.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	18:50	18:55	0.08	2909.00	2919.00	10.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2909.00 t/2919.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 120.00, Diff 750.00
01/08/2023	18:55	19:20	0.42	2919.00	2949.00	30.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/2919.00 t/2949.00, TF M, w/WOB 30.00,Flow 700.00, Press 2850.00, Tq 8000.00, ROP 72.00, Diff 750.00
01/08/2023	19:20	19:35	0.25	2949.00	3004.00	55.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/2949.00 t/3004.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 220.00, Diff 750.00
01/08/2023	19:35	19:40	0.08	3004.00	3004.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	19:40	19:55	0.25	3004.00	3096.00	92.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3004.00 t/3096.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 368.00, Diff 750.00
01/08/2023	19:55	20:00	0.08	3096.00	3096.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	20:00	20:25	0.42	3096.00	3190.00	94.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3096.00 t/3190.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 225.60, Diff 750.00
01/08/2023	20:25	20:30	0.08	3190.00	3190.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	20:30	20:55	0.42	3190.00	3285.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3190.00 t/3285.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 228.00, Diff 750.00
01/08/2023	20:55	21:00	0.08	3285.00	3285.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	21:00	21:05	0.08	3285.00	3295.00	10.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3285.00 t/3295.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 120.00, Diff 750.00
01/08/2023	21:05	21:55	0.83	3295.00	3335.00	40.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/3295.00 t/3335.00, TF M, w/WOB 30.00,Flow 700.00, Press 2850.00, Tq 8000.00, ROP 48.00, Diff 750.00
01/08/2023	21:55	22:05	0.17	3335.00	3378.00	43.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3335.00 t/3378.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 258.00, Diff 750.00
01/08/2023	22:05	22:10	0.08	3378.00	3378.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	22:10	22:15	0.08	3378.00	3388.00	10.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3378.00 t/3388.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 120.00, Diff 750.00
01/08/2023	22:15	23:00	0.75	3388.00	3418.00	30.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/3388.00 t/3418.00, TF M, w/WOB 30.00,Flow 700.00, Press 2850.00, Tq 8000.00, ROP 40.00, Diff 750.00
01/08/2023	23:00	23:30	0.50	3418.00	3473.00	55.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3418.00 t/3473.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 110.00, Diff 750.00
01/08/2023	23:30	23:35	0.08	3473.00	3473.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/08/2023	23:35	23:40	0.08	3473.00	3490.00	17.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3473.00 t/3490.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 204.00, Diff 750.00
01/08/2023	23:40	24:00	0.33	3490.00	3500.00	10.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/3490.00 t/3500.00, TF M, w/WOB 30.00,Flow 700.00, Press 2850.00, Tq 8000.00, ROP 30.00, Diff 750.00

Daily Drilling Report 01/09/2023

Job #	AEP-PB-230022	**Operator**	Matador Resources
API Job # / AFE #	30-025-50845 / 500002.850.01.001	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Report #	5	**Well**	Uncle Richard State Com 213H
Latitude:	32° 10' 2.761" N	**Longitude**	103° 16' 58.029" W
Rig:	Patterson 256	**County / State**	Lea / New Mexico
Date:	01/09/2023	**Report Time**	00:00-24:00
Daily Cost(USD)		**Well Cost(USD)**	

24Hr Summary

Continue to drill away in the nudge tangent. We are able to get 3-4 stands of rotate for every slide we are currently doing.

24Hr Lookahead

Drilling is slow right now as we are in a heavy dolomite formation. We are off several degrees in azimuth, but will attempt to correct this once we are through this formation. Previous slide in this proved almost impossible to control the toolface. Should TD around noon. Circulate, and pull out of the hole for casing.

Drilling Summary	24Hr (BHA 2)	Run (BHA 2)	Casing Data		Fluids			
Start Depth (Usft)	3500.00	1689.00	**Csg Shoe MD(Usft)**		**600**	30.00	**%Sand**	
End Depth (Usft)	5478.00	5478.00	**OD (in)**		**300**	20.00	**%Solids**	6.00
Total Drilled (Usft)	1978	3789	**Weight (lb/ft)**		**200**	16.00	**Weight (ppg)**	8.65
Slide Drilled (Usft)		475	**Bit Data**		**100**	12.00	**Fluid Loss**	100.00
Rotary Drilled (Usft)	1978	3314	**SN**	5334284	**6**	5.00	**PH**	8.50
Drlg/Circ Hrs	22.33 / 1.67	37.25 / 5.75	**Bit #**	2	**3**	4.00	**Mud Type**	DB
Slide Drilling Hrs		10.42	**OD (in)**	12.250	**10s Gel**	1.00	**Oil/Water**	
Rotary Drilling Hrs	22.33	26.83	**TFA**	1.353	**Temp(F)**	110.00		
ROP Rot/Slide (Usft/hr)	88.57 / 0.00	123.50 / 45.60	**Grade In**	New	**PV**	10.00		
BRT Hrs	24.00	45.00	**Grade Out**	1-1-BT-S-X-I-CT-TD	**YP**	10.00		
%Slide		12.54	**Make**	Baker Hughes	**Viscosity**	38.00		
%Rotary	100.00	87.46	**Model**	D507VTX	**Chlorides**	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Steve Tacheny	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Ben Brimhall										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
12.25 Baker D507VTX PDC - 1.35 (9x14)	12.250					1.50	1.50
9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/11.75 SLV Stab (BFF)	8.780					35.90	37.40
11.75" HS NM 4 Blade Stabilizer (BFF)	8.400	2.970				3.65	41.05
8 Cushion Sub	7.960	2.875				13.24	54.29
Shock Meiser	8.000	3.500				3.01	57.30
8 NMDC - Tool Carrier	7.940	3.750				30.30	87.60
8 NMDC	8.060	3.750				28.54	116.14
8 Drill Collars 1 stand (3 joints)	8.000	3.750				87.96	204.10
XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875				3.23	207.33
6.5 Drill Collars 3 stands (9 joints)	6.500	3.000				260.40	467.73
XO 4 1/2 XH pin to CET 43 Box	6.563	2.625				3.65	471.38
10 stands (30 joints) HWDP	5.000	3.000				919.12	1390.50
							1390.50

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP9002	Altitude	AEP	7/8	8.49	1.75	0.18	FBH	7

Surveys

MD (Usft)	INC	AZI	TVD (Usft)	NS (Usft)	EW (Usft)	DLS (deg/100Usft)	TFO	VS (Usft)	BR (deg/100Usft)	TR (deg/100Usft)	CL (Usft)
3490.00	5.50	239.48	3485.43	-60.76	-103.66	0.19	60.82	-59.54	0.10	1.74	94.00
3584.00	6.50	244.57	3578.91	-65.33	-112.34	1.20	30.56	-64.01	1.06	5.41	94.00
3679.00	5.80	242.05	3673.36	-69.89	-121.44	0.79	-160.16	-68.47	-0.74	-2.65	95.00
3774.00	5.19	240.59	3767.93	-74.25	-129.42	0.66	-167.82	-72.73	-0.64	-1.54	95.00
3869.00	5.70	242.95	3862.50	-78.51	-137.37	0.59	24.88	-76.90	0.54	2.48	95.00
3964.00	6.50	247.53	3956.96	-82.71	-146.54	0.99	33.61	-80.99	0.84	4.82	95.00
4058.00	6.12	244.98	4050.39	-86.86	-156.00	0.50	-144.85	-85.03	-0.40	-2.71	94.00
4154.00	5.94	245.34	4145.86	-91.10	-165.15	0.19	168.31	-89.16	-0.19	0.38	96.00
4248.00	5.68	243.95	4239.38	-95.17	-173.75	0.31	-152.27	-93.13	-0.28	-1.48	94.00
4341.00	5.68	247.32	4331.92	-98.96	-182.13	0.36	91.68	-96.83	0.00	3.62	93.00
4435.00	6.01	248.35	4425.43	-102.57	-190.99	0.37	18.15	-100.33	0.35	1.10	94.00
4531.00	6.03	245.92	4520.90	-106.49	-200.27	0.27	-86.72	-104.14	0.02	-2.53	96.00
4625.00	6.11	246.60	4614.38	-110.49	-209.37	0.11	42.29	-108.03	0.09	0.72	94.00
4720.00	6.03	246.27	4708.84	-114.50	-218.57	0.09	-156.60	-111.94	-0.08	-0.35	95.00
4814.00	5.96	246.63	4802.33	-118.43	-227.57	0.08	151.94	-115.76	-0.07	0.38	94.00
4909.00	6.01	247.75	4896.81	-122.27	-236.70	0.13	67.38	-119.49	0.05	1.18	95.00
5004.00	5.72	249.20	4991.31	-125.83	-245.73	0.34	153.66	-122.95	-0.31	1.53	95.00
5099.00	5.99	241.09	5085.82	-129.91	-254.50	0.92	-75.99	-126.92	0.28	-8.54	95.00
5194.00	6.58	237.57	5180.25	-135.22	-263.43	0.74	-34.91	-132.13	0.62	-3.71	95.00
5289.00	6.43	236.88	5274.64	-141.05	-272.48	0.18	-152.82	-137.85	-0.16	-0.73	95.00
5383.00	6.28	237.31	5368.06	-146.70	-281.22	0.17	162.61	-143.40	-0.16	0.46	94.00

Drilling Parameters													
	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	88.57	29.91	55.00	181.00	700.00	2843.18	2113.64	0.00	145.00	135.00	125.00	8000.00	0.00
Run	101.72	28.68	52.92	177.00	687.10	2710.48	2020.97	0.00	141.77	133.26	124.68	7750.00	0.00

MWD Data							
Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics					
Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/09/2023	00:00	00:30	0.50	3500.00	3525.00	25.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/3500.00 t/3525.00, TF M, w/WOB 30.00,Flow 700.00, Press 2850.00, Tq 0.00, ROP 50.00, Diff 750.00
01/09/2023	00:30	00:40	0.17	3525.00	3567.00	42.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3525.00 t/3567.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 252.00, Diff 750.00
01/09/2023	00:40	00:45	0.08	3567.00	3567.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	00:45	01:25	0.67	3567.00	3661.00	94.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3567.00 t/3661.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 141.00, Diff 750.00
01/09/2023	01:25	01:30	0.08	3661.00	3661.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	01:30	02:20	0.83	3661.00	3756.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3661.00 t/3756.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 114.00, Diff 750.00
01/09/2023	02:20	02:25	0.08	3756.00	3756.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	02:25	03:10	0.75	3756.00	3851.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3756.00 t/3851.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 126.67, Diff 750.00
01/09/2023	03:10	03:15	0.08	3851.00	3851.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	03:15	03:20	0.08	3851.00	3861.00	10.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3851.00 t/3861.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 120.00, Diff 750.00
01/09/2023	03:20	04:25	1.08	3861.00	3901.00	40.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/3861.00 t/3901.00, TF M, w/WOB 28.00,Flow 700.00, Press 2700.00, Tq 0.00, ROP 36.92, Diff 300.00
01/09/2023	04:25	04:50	0.42	3901.00	3946.00	45.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3901.00 t/3946.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 108.00, Diff 750.00
01/09/2023	04:50	04:55	0.08	3946.00	3946.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	04:55	05:30	0.58	3946.00	4041.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/3946.00 t/4041.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 162.86, Diff 750.00
01/09/2023	05:30	06:15	0.75	4041.00	4135.00	94.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4041.00 t/4135.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 125.33, Diff 750.00
01/09/2023	06:15	06:20	0.08	4135.00	4135.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	06:20	07:00	0.67	4135.00	4231.00	96.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4135.00 t/4231.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 144.00, Diff 750.00
01/09/2023	07:00	07:05	0.08	4231.00	4231.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	07:05	07:10	0.08	4231.00	4233.00	2.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4231.00 t/4233.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 24.00, Diff 750.00
01/09/2023	07:10	08:05	0.92	4233.00	4273.00	40.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/4233.00 t/4273.00, TF M, w/WOB 30.00,Flow 700.00, Press 2850.00, Tq 8000.00, ROP 43.64, Diff 750.00
01/09/2023	08:05	08:25	0.33	4273.00	4325.00	52.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4273.00 t/4325.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 156.00, Diff 750.00
01/09/2023	08:25	08:30	0.08	4325.00	4325.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	08:30	08:35	0.08	4325.00	4335.00	10.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4325.00 t/4335.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 120.00, Diff 750.00
01/09/2023	08:35	09:30	0.92	4335.00	4375.00	40.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/4335.00 t/4375.00, TF M, w/WOB 30.00,Flow 700.00, Press 2850.00, Tq 8000.00, ROP 43.64, Diff 750.00
01/09/2023	09:30	09:50	0.33	4375.00	4418.00	43.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4375.00 t/4418.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 129.00, Diff 750.00
01/09/2023	09:50	09:55	0.08	4418.00	4418.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	09:55	10:15	0.33	4418.00	4512.00	94.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4418.00 t/4512.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 282.00, Diff 750.00
01/09/2023	10:15	10:20	0.08	4512.00	4512.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	10:20	11:00	0.67	4512.00	4608.00	96.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4512.00 t/4608.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 144.00, Diff 750.00
01/09/2023	11:00	11:05	0.08	4608.00	4608.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	11:05	12:05	1.00	4608.00	4702.00	94.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4608.00 t/4702.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 94.00, Diff 750.00
01/09/2023	12:05	12:10	0.08	4702.00	4702.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	12:10	13:15	1.08	4702.00	4797.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4702.00 t/4797.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 87.69, Diff 750.00
01/09/2023	13:15	13:20	0.08	4797.00	4797.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	13:20	14:30	1.17	4797.00	4891.00	94.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4797.00 t/4891.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 80.57, Diff 750.00
01/09/2023	14:30	14:35	0.08	4891.00	4891.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	14:35	15:55	1.33	4891.00	4986.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4891.00 t/4986.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 71.25, Diff 750.00
01/09/2023	15:55	16:00	0.08	4986.00	4986.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	16:00	17:00	1.00	4986.00	5081.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/4986.00 t/5081.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 95.00, Diff 750.00
01/09/2023	17:00	17:05	0.08	5081.00	5081.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	17:05	17:10	0.08	5081.00	5084.00	3.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5081.00 t/5084.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 8000.00, ROP 36.00, Diff 750.00
01/09/2023	17:10	19:10	2.00	5084.00	5124.00	40.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/5084.00 t/5124.00, TF M, w/WOB 30.00,Flow 700.00, Press 2850.00, Tq 0.00, ROP 20.00, Diff 750.00
01/09/2023	19:10	19:40	0.50	5124.00	5176.00	52.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5124.00 t/5176.00, w/WOB 30.00,Flow 700.00, RPM 0.00, Press 2850.00, Tq 0.00, ROP 104.00, Diff 750.00
01/09/2023	19:40	19:45	0.08	5176.00	5176.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	19:45	21:00	1.25	5176.00	5271.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5176.00 t/5271.00, w/WOB 30.00,Flow 700.00, RPM 0.00, Press 2850.00, Tq 0.00, ROP 76.00, Diff 750.00
01/09/2023	21:00	21:05	0.08	5271.00	5271.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	21:05	22:20	1.25	5271.00	5366.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5271.00 t/5366.00, w/WOB 30.00,Flow 700.00, RPM 0.00, Press 2850.00, Tq 0.00, ROP 76.00, Diff 750.00
01/09/2023	22:20	22:25	0.08	5366.00	5366.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	22:25	23:40	1.25	5366.00	5460.00	94.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5366.00 t/5460.00, w/WOB 30.00,Flow 700.00, RPM 0.00, Press 2850.00, Tq 0.00, ROP 75.20, Diff 750.00
01/09/2023	23:40	23:45	0.08	5460.00	5460.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/09/2023	23:45	24:00	0.25	5460.00	5478.00	18.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5460.00 t/5478.00, w/WOB 30.00,Flow 700.00, RPM 0.00, Press 2850.00, Tq 0.00, ROP 72.00, Diff 750.00

Daily Drilling Report 01/10/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	6	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/10/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Drilled to a TD of 6130. Circulated and pulled out of the hole to run casing and cement. Tools were down before midnight, and we should be picking up BHA#3 tomorrow evening.

24Hr Lookahead

Should be picking up BHA# 3 the night of the 11th.

Drilling Summary	24Hr (BHA 2)	Run (BHA 2)	Casing Data		Fluids			
Start Depth (Usft)	5478.00	1689.00	Csg Shoe MD(Usft)		600	30.00	%Sand	
End Depth (Usft)	6130.00	6130.00	OD (in)		300	20.00	%Solids	6.00
Total Drilled (Usft)	652	4441	Weight (lb/ft)		200	16.00	Weight (ppg)	8.65
Slide Drilled (Usft)		532	Bit Data		100	12.00	Fluid Loss	100.00
Rotary Drilled (Usft)	652	3909	SN	5334284	6	5.00	PH	8.50
Drlg/Circ Hrs	11.58 / 3.17	48.83 / 8.92	Bit #	2	3	4.00	Mud Type	DB
Slide Drilling Hrs		14.58	OD (in)	12.250	10s Gel	1.00	Oil/Water	
Rotary Drilling Hrs	11.58	34.25	TFA	1.353	Temp(F)	110.00		
ROP Rot/Slide (Usft/hr)	56.29 / 0.00	114.13 / 36.48	Grade In	New	PV	10.00		
BRT Hrs	22.50	67.50	Grade Out	1-1-BT-S-X-I-CT-TD	YP	10.00		
%Slide		11.98	Make	Baker Hughes	Viscosity	38.00		
%Rotary	100.00	88.02	Model	D507VTX	Chlorides	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Steve Tacheny	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Ben Brimhall										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
12.25 Baker D507VTX PDC - 1.35 (9x14)	12.250					1.50	1.50
9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/11.75 SLV Stab (BFF)	8.780					35.90	37.40
11.75" HS NM 4 Blade Stabilizer (BFF)	8.400	2.970				3.65	41.05
8 Cushion Sub	7.960	2.875				13.24	54.29
Shock Meiser	8.000	3.500				3.01	57.30
8 NMDC - Tool Carrier	7.940	3.750				30.30	87.60
8 NMDC	8.060	3.750				28.54	116.14
8 Drill Collars 1 stand (3 joints)	8.000	3.750				87.96	204.10
XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875				3.23	207.33
6.5 Drill Collars 3 stands (9 joints)	6.500	3.000				260.40	467.73
XO 4 1/2 XH pin to CET 43 Box	6.563	2.625				3.65	471.38
10 stands (30 joints) HWDP	5.000	3.000				919.12	1390.50
							1390.50

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP9002	Altitude	AEP	7/8	8.49	1.75	0.18	FBH	7

Surveys

MD (Usft)	INC	AZI	TVD (Usft)	NS (Usft)	EW (Usft)	DLS (deg/100Usft)	TFO	VS (Usft)	BR (deg/100Usft)	TR (deg/100Usft)	CL (Usft)
5479.00	5.93	236.89	5463.51	-152.25	-289.79	0.37	-172.94	-148.85	-0.36	-0.44	96.00
5573.00	5.57	235.99	5557.04	-157.45	-297.64	0.39	-166.39	-153.96	-0.38	-0.96	94.00
5668.00	5.09	235.92	5651.63	-162.39	-304.95	0.51	-179.26	-158.81	-0.51	-0.07	95.00
5764.00	4.89	234.70	5747.27	-167.14	-311.82	0.24	-152.66	-163.48	-0.21	-1.27	96.00
5858.00	4.86	236.90	5840.93	-171.63	-318.42	0.20	100.21	-167.89	-0.03	2.34	94.00
5953.00	5.19	238.22	5935.56	-176.09	-325.45	0.37	19.97	-172.27	0.35	1.39	95.00
6053.00	4.92	235.53	6035.17	-180.90	-332.83	0.36	-140.06	-177.00	-0.27	-2.69	100.00

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	56.29	29.91	55.00	181.00	700.00	2843.18	2113.64	0.00	145.00	135.00	125.00	8000.00	0.00
Run	90.94	28.68	52.92	177.00	687.10	2710.48	2020.97	0.00	141.77	133.26	124.68	7750.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics					
Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/10/2023	00:00	01:00	1.00	5478.00	5556.00	78.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5478.00 t/5556.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 12000.00, ROP 78.00, Diff 750.00
01/10/2023	01:00	01:05	0.08	5556.00	5556.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/10/2023	01:05	01:15	0.17	5556.00	5566.00	10.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5556.00 t/5566.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 12000.00, ROP 60.00, Diff 750.00
01/10/2023	01:15	02:05	0.83	5566.00	5578.00	12.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/5566.00 t/5578.00, TF M, w/WOB 30.00,Flow 700.00, Press 2850.00, Tq 0.00, ROP 14.40, Diff 750.00
01/10/2023	02:05	03:15	1.17	5578.00	5650.00	72.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5578.00 t/5650.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 15000.00, ROP 61.71, Diff 750.00
01/10/2023	03:15	03:20	0.08	5650.00	5650.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/10/2023	03:20	04:35	1.25	5650.00	5745.00	95.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5650.00 t/5745.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 15000.00, ROP 76.00, Diff 750.00
01/10/2023	04:35	04:40	0.08	5745.00	5745.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/10/2023	04:40	05:15	0.58	5745.00	5800.00	55.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5745.00 t/5800.00, w/WOB 30.00,Flow 700.00, RPM 55.00, Press 2850.00, Tq 15000.00, ROP 94.29, Diff 750.00
01/10/2023	05:15	06:25	1.17	5800.00	5815.00	15.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/5800.00 t/5815.00, TF M, w/WOB 30.00,Flow 550.00, Press 2400.00, Tq 0.00, ROP 12.86, Diff 300.00
01/10/2023	06:25	06:50	0.42	5815.00	5841.00	26.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5815.00 t/5841.00, w/WOB 30.00,Flow 550.00, RPM 55.00, Press 2650.00, Tq 15000.00, ROP 62.40, Diff 550.00
01/10/2023	06:50	06:55	0.08	5841.00	5841.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/10/2023	06:55	07:00	0.08	5841.00	5848.00	7.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5841.00 t/5848.00, w/WOB 30.00,Flow 550.00, RPM 55.00, Press 2650.00, Tq 15000.00, ROP 84.00, Diff 550.00
01/10/2023	07:00	08:00	1.00	5848.00	5863.00	15.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/5848.00 t/5863.00, TF M, w/WOB 30.00,Flow 550.00, Press 2400.00, Tq 0.00, ROP 15.00, Diff 300.00
01/10/2023	08:00	09:00	1.00	5863.00	5935.00	72.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5863.00 t/5935.00, w/WOB 30.00,Flow 550.00, RPM 55.00, Press 2650.00, Tq 15000.00, ROP 72.00, Diff 550.00
01/10/2023	09:00	09:05	0.08	5935.00	5935.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/10/2023	09:05	09:10	0.08	5935.00	5940.00	5.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5935.00 t/5940.00, w/WOB 30.00,Flow 550.00, RPM 55.00, Press 2650.00, Tq 15000.00, ROP 60.00, Diff 550.00
01/10/2023	09:10	10:20	1.17	5940.00	5955.00	15.00	INT-1	2: BHA 2 Start of Nudge	2B	Slide Drill f/5940.00 t/5955.00, TF M, w/WOB 30.00,Flow 550.00, Press 2400.00, Tq 0.00, ROP 12.86, Diff 300.00
01/10/2023	10:20	11:10	0.83	5955.00	6030.00	75.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/5955.00 t/6030.00, w/WOB 30.00,Flow 550.00, RPM 55.00, Press 2650.00, Tq 15000.00, ROP 90.00, Diff 550.00
01/10/2023	11:10	11:15	0.08	6030.00	6030.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Survey & Connection
01/10/2023	11:15	12:00	0.75	6030.00	6124.00	94.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/6030.00 t/6124.00, w/WOB 30.00,Flow 550.00, RPM 55.00, Press 2650.00, Tq 15000.00, ROP 125.33, Diff 550.00
01/10/2023	12:00	12:05	0.08	6124.00	6124.00	0.00	INT-1	2: BHA 2 Start of Nudge	10F	Connection
01/10/2023	12:05	12:10	0.08	6124.00	6130.00	6.00	INT-1	2: BHA 2 Start of Nudge	2A	Rotary Drill f/6124.00 t/6130.00, w/WOB 30.00,Flow 550.00, RPM 55.00, Press 2650.00, Tq 15000.00, ROP 72.00, Diff 550.00
01/10/2023	12:10	14:50	2.67	6130.00	6130.00	0.00	INT-1	2: BHA 2 Start of Nudge	5A	Circulate hole clean
01/10/2023	14:50	21:00	6.17	6130.00	6130.00	0.00	INT-1	2: BHA 2 Start of Nudge	6B	Pull out of hole for casing
01/10/2023	21:00	21:05	0.08	6130.00	6130.00	0.00	INT-1	2: BHA 2 Start of Nudge	21C	Safety meeting with directional
01/10/2023	21:05	22:30	1.42	6130.00	6130.00	0.00	INT-1	2: BHA 2 Start of Nudge	6P	Lay down BHA #2
01/10/2023	22:30	24:00	1.50	6130.00	6130.00	0.00	INT-1		12A	Rig up to run casing

Daily Drilling Report 01/11/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	7	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/11/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary
Rig ran casing and cemented. With the losses that were experienced during BHA # 2, casing and cement had to be run slowly. Once finished the rig prepared to pick up BHA#3.

24Hr Lookahead
Will be picking up BHA#3 just after midnight. We will run in the hole, drill out and perform a FIT test. Once done, we will continue drilling.

Drilling Summary	24Hr ()	Run ()	Casing Data		Fluids			
Start Depth (Usft)	6130.00		Csg Shoe MD(Usft)		600	30.00	%Sand	
End Depth (Usft)	6130.00	6130.00	OD (in)		300	20.00	%Solids	6.00
Total Drilled (Usft)			Weight (lb/ft)		200	16.00	Weight (ppg)	8.65
Slide Drilled (Usft)			Bit Data		100	12.00	Fluid Loss	100.00
Rotary Drilled (Usft)			SN		6	5.00	PH	8.50
Drlg/Circ Hrs		0.00 / 2.08	Bit #		3	4.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)		10s Gel	1.00	Oil/Water	
Rotary Drilling Hrs			TFA		Temp(F)	110.00		
ROP Rot/Slide (Usft/hr)			Grade In		PV	10.00		
BRT Hrs			Grade Out		YP	10.00		
%Slide			Make		Viscosity	38.00		
%Rotary			Model		Chlorides	150000.00		

Personnel												
Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Steve Tacheny	Ben Brimhall	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

Drilling Parameters													
	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	29.91	55.00	181.00	700.00	2843.18	2113.64	0.00	145.00	135.00	125.00	8000.00	0.00
Run	0.00	28.68	52.92	177.00	687.10	2710.48	2020.97	0.00	141.77	133.26	124.68	7750.00	0.00

MWD Data							
Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics					
Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity									
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/11/2023	00:00	15:00	15.00	6130.00	6130.00	0.00	INT-1		12B	Casing ops
01/11/2023	15:00	16:05	1.08	6130.00	6130.00	0.00	INT-1		5A	Circulate Casing
01/11/2023	16:05	21:30	5.42	6130.00	6130.00	0.00	INT-1		12E	Rig to and cement casing
01/11/2023	21:30	24:00	2.50	6130.00	6130.00	0.00	INT-1		1B	Rig up and prepare for BHA#3

Daily Drilling Report 01/12/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	8	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/12/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Picked up BHA#3 and ran in the hole. Drilled out, fit tested, and began drilling the nudge to vertical section.

24Hr Lookahead

Continue drilling down to ICP #2. Drilling is good and toolfaces are still relatively easy to control at this point. Guessing there should be another 30 hours drilling before we are done this section. Should TD the morning of the 14th.

Drilling Summary	24Hr (BHA 3)	Run (BHA 3)	Casing Data		Fluids			
Start Depth (Usft)	6130.00	6130.00	Csg Shoe MD(Usft)		600	7.00	%Sand	
End Depth (Usft)	7733.00	7733.00	OD (in)		300	5.00	%Solids	3.38
Total Drilled (Usft)	1603	1603	Weight (lb/ft)		200	4.00	Weight (ppg)	8.90
Slide Drilled (Usft)		116	Bit Data		100	3.00	Fluid Loss	100.00
Rotary Drilled (Usft)	1603	1487	SN	A295458	6	1.00	PH	11.50
Drlg/Circ Hrs	11.58 / 2.83	11.58 / 2.83	Bit #	3	3	1.00	Mud Type	WBM
Slide Drilling Hrs		3.17	OD (in)	9.875	10s Gel	2.00	Oil/Water	
Rotary Drilling Hrs	11.58	8.42	TFA	0.902	Temp(F)	90.00		
ROP Rot/Slide (Usft/hr)	138.39 / 0.00	176.67 / 36.63	Grade In	New	PV	2.00		
BRT Hrs	22.00	22.00	Grade Out	2-4-LT-S-X-I-BT-PR	YP	3.00		
%Slide		7.24	Make	Reed Hycalog	Viscosity	30.00		
%Rotary	100.00	92.76	Model	TK66-U1	Chlorides	53000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Steve Tacheny	Ben Brimhall	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
9 7/8 Reed TK66-U1 PDC - 0.90 (6x14)	9.875					1.50	1.50
8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	8.330					34.25	35.75
9 3/8 Stabilizer with Float	8.020	3.063				7.26	43.01
Shock Meiser	8.000	3.500				3.01	46.02
8 NMDC - Tool Carrier	7.940	3.750				30.30	76.32
8 NMDC	8.060	3.750				28.54	104.86
8 Drill Collars 1 stand (3 joints)	8.000	3.750				87.96	192.82
XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875				3.23	196.05
6.5 Drill Collars 3 stands (9 joints)	6.500	3.000				260.40	456.45
XO 4 1/2 XH pin to CET 43 Box	6.563	2.625				3.65	460.10
10 stands (30 joints) HWDP	5.000	3.000				919.12	1379.22
							1379.22

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP8006	Altitude	AEP	7/8	5.88	1.75	0.18	FBH	7

Surveys

MD (Usft)	INC	AZI	TVD (Usft)	NS (Usft)	EW (Usft)	DLS (deg/100Usft)	TFO	VS (Usft)	BR (deg/100Usft)	TR (deg/100Usft)	CL (Usft)
6139.00	4.98	236.81	6120.85	-185.03	-338.99	0.15	62.13	-181.05	0.07	1.49	86.00
6234.00	4.96	236.40	6215.49	-189.56	-345.86	0.04	-119.59	-185.50	-0.02	-0.43	95.00
6329.00	6.61	253.31	6310.01	-193.40	-354.52	2.48	54.55	-189.24	1.74	17.80	95.00
6424.00	6.85	253.77	6404.36	-196.56	-365.20	0.26	12.89	-192.27	0.25	0.48	95.00
6519.00	6.56	254.32	6498.71	-199.61	-375.86	0.31	167.79	-195.20	-0.31	0.58	95.00
6615.00	5.97	254.53	6594.14	-202.42	-385.95	0.62	177.88	-197.89	-0.61	0.22	96.00
6709.00	5.56	256.06	6687.66	-204.82	-395.08	0.47	160.21	-200.19	-0.44	1.63	94.00
6804.00	7.19	241.83	6782.08	-208.74	-404.79	2.38	-51.33	-203.99	1.72	-14.98	95.00
6898.00	8.23	232.56	6875.23	-215.61	-415.32	1.72	-54.75	-210.73	1.11	-9.86	94.00
6992.00	7.57	229.66	6968.34	-223.70	-425.38	0.82	-150.30	-218.71	-0.70	-3.09	94.00
7087.00	6.96	246.59	7062.58	-230.04	-435.44	2.33	114.19	-224.93	-0.64	17.82	95.00
7180.00	6.67	247.95	7154.93	-234.31	-445.61	0.36	151.58	-229.08	-0.31	1.46	93.00
7274.00	6.05	246.18	7248.35	-238.36	-455.20	0.69	-163.33	-233.02	-0.66	-1.88	94.00
7368.00	5.30	243.53	7341.89	-242.29	-463.62	0.84	-162.06	-236.86	-0.80	-2.82	94.00
7461.00	4.77	242.41	7434.53	-246.00	-470.89	0.58	-170.05	-240.48	-0.57	-1.20	93.00
7556.00	4.17	243.32	7529.24	-249.38	-477.48	0.64	173.71	-243.78	-0.63	0.96	95.00
7650.00	3.90	244.34	7623.01	-252.30	-483.42	0.30	165.62	-246.63	-0.29	1.09	94.00

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	138.39	27.86	44.00	153.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00
Run	138.39	27.86	44.00	153.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00

MWD Data							
Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics					
Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/12/2023	00:00	00:30	0.50	6130.00	6130.00	0.00	INT-1		1B	Finish rigging up and prepare for BHA#3
01/12/2023	00:30	00:35	0.08	6130.00	6130.00	0.00	INT-1		21C	Safety Meeting with Directional
01/12/2023	00:35	02:00	1.42	6130.00	6130.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	6O	Pick up BHA # 3
01/12/2023	02:00	05:30	3.50	6130.00	6130.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	6A	RIH
01/12/2023	05:30	09:25	3.92	6130.00	6130.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	24B	P/T csg, drill out etc...
01/12/2023	09:25	09:30	0.08	6130.00	6140.00	10.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6130.00 t/6140.00, w/WOB 5.00,Flow 450.00, RPM 20.00, Press 1300.00, Tq 8.00, ROP 120.00, Diff 100.00
01/12/2023	09:30	11:00	1.50	6140.00	6140.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	11:00	11:25	0.42	6140.00	6206.00	66.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6140.00 t/6206.00, w/WOB 30.00,Flow 600.00, RPM 50.00, Press 2700.00, Tq 10000.00, ROP 158.40, Diff 600.00
01/12/2023	11:25	11:30	0.08	6206.00	6206.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	11:30	11:35	0.08	6206.00	6220.00	14.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6206.00 t/6220.00, w/WOB 30.00,Flow 600.00, RPM 50.00, Press 2700.00, Tq 10000.00, ROP 168.00, Diff 600.00
01/12/2023	11:35	12:25	0.83	6220.00	6236.00	16.00	INT-2	3: BHA 3 Nudge to Vertical	2B	Slide Drill f/6220.00 t/6236.00, TF M, w/WOB 30.00,Flow 600.00, Press 2700.00, Tq 10000.00, ROP 19.20, Diff 600.00
01/12/2023	12:25	12:40	0.25	6236.00	6301.00	65.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6236.00 t/6301.00, w/WOB 30.00,Flow 600.00, RPM 50.00, Press 2700.00, Tq 10000.00, ROP 260.00, Diff 600.00
01/12/2023	12:40	12:45	0.08	6301.00	6301.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	12:45	12:50	0.08	6301.00	6310.00	9.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6301.00 t/6310.00, w/WOB 35,Flow 700, RPM 50.00, Press 2850, Tq 11000, ROP 108.00, Diff 600.00
01/12/2023	12:50	13:50	1.00	6310.00	6345.00	35.00	INT-2	3: BHA 3 Nudge to Vertical	2B	Slide Drill f/6310.00 t/6345.00, TF M, w/WOB 35,Flow 700, Press 2850, Tq 11000, ROP 35.00, Diff 600.00
01/12/2023	13:50	14:45	0.92	6345.00	6491.00	146.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6345.00 t/6491.00, w/WOB 35.00,Flow 700.00, RPM 60, Press 3350.00, Tq 11000.00, ROP 159.27, Diff 550.00
01/12/2023	14:45	14:50	0.08	6491.00	6491.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	14:50	15:20	0.50	6491.00	6586.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6491.00 t/6586.00, w/WOB 35.00,Flow 700.00, RPM 60, Press 3350.00, Tq 11000.00, ROP 190.00, Diff 550.00
01/12/2023	15:20	15:25	0.08	6586.00	6586.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	15:25	15:50	0.42	6586.00	6682.00	96.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6586.00 t/6682.00, w/WOB 35.00,Flow 700.00, RPM 60, Press 3350.00, Tq 11000.00, ROP 230.40, Diff 550.00
01/12/2023	15:50	15:55	0.08	6682.00	6682.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	15:55	16:20	0.42	6682.00	6776.00	94.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6682.00 t/6776.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 225.60, Diff 1000.00
01/12/2023	16:20	16:25	0.08	6776.00	6776.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	16:25	16:30	0.08	6776.00	6789.00	13.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6776.00 t/6789.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 156.00, Diff 1000.00
01/12/2023	16:30	17:10	0.67	6789.00	6829.00	40.00	INT-2	3: BHA 3 Nudge to Vertical	2B	Slide Drill f/6789.00 t/6829.00, TF M, w/WOB 35.00,Flow 750.00, Press 3800.00, Tq 11000.00, ROP 60.00, Diff 1000.00
01/12/2023	17:10	17:30	0.33	6829.00	6871.00	42.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6829.00 t/6871.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 126.00, Diff 1000.00
01/12/2023	17:30	17:35	0.08	6871.00	6871.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	17:35	17:45	0.17	6871.00	6871.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	8P	
01/12/2023	17:45	18:35	0.83	6871.00	6965.00	94.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6871.00 t/6965.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 112.80, Diff 1000.00
01/12/2023	18:35	18:40	0.08	6965.00	6965.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	18:40	19:20	0.67	6965.00	7059.00	94.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/6965.00 t/7059.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 141.00, Diff 1000.00
01/12/2023	19:20	19:25	0.08	7059.00	7059.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	19:25	19:30	0.08	7059.00	7070.00	11.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7059.00 t/7070.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 132.00, Diff 1000.00
01/12/2023	19:30	20:10	0.67	7070.00	7095.00	25.00	INT-2	3: BHA 3 Nudge to Vertical	2B	Slide Drill f/7070.00 t/7095.00, TF M, w/WOB 34.00,Flow 750.00, Press 3800.00, Tq 11000.00, ROP 37.50, Diff 1000.00
01/12/2023	20:10	20:30	0.33	7095.00	7154.00	59.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7095.00 t/7154.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 177.00, Diff 1000.00
01/12/2023	20:30	20:35	0.08	7154.00	7154.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	20:35	21:05	0.50	7154.00	7247.00	93.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7154.00 t/7247.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 186.00, Diff 1000.00

01/12/2023	21:05	21:10	0.08	7247.00	7247.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	21:10	21:35	0.42	7247.00	7341.00	94.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7247.00 t/7341.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 225.60, Diff 1000.00
01/12/2023	21:35	21:40	0.08	7341.00	7341.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	21:40	22:05	0.42	7341.00	7435.00	94.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7341.00 t/7435.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 225.60, Diff 1000.00
01/12/2023	22:05	22:10	0.08	7435.00	7435.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	22:10	22:40	0.50	7435.00	7528.00	93.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7435.00 t/7528.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 186.00, Diff 1000.00
01/12/2023	22:40	22:45	0.08	7528.00	7528.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	22:45	23:15	0.50	7528.00	7623.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7528.00 t/7623.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 190.00, Diff 1000.00
01/12/2023	23:15	23:20	0.08	7623.00	7623.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	23:20	23:45	0.42	7623.00	7717.00	94.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7623.00 t/7717.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 225.60, Diff 1000.00
01/12/2023	23:45	23:50	0.08	7717.00	7717.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/12/2023	23:50	24:00	0.17	7717.00	7733.00	16.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7717.00 t/7733.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 96.00, Diff 1000.00

Daily Drilling Report 01/13/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	9	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/13/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Continue to drill down vertically staying within a 15 foot diameter of the vertical target. ROP is slowing down to the 50 - 70 ROP. Spoke to company man and he said that is to be expected at this depth here. He also mentions that they scrub quite a few drill bits in this area, so there is always a possibility of a bit trip between now and TD. Till then, continue to drill ahead.

24Hr Lookahead

Drilling ahead towards ICP #2. Should TD late tonight or the morning of the 15th.... if we make it there. ROP right now is sitting around 50 because of formation.

Drilling Summary	24Hr (BHA 3)	Run (BHA 3)	Casing Data		Fluids			
Start Depth (Usft)	7733.00	6130.00	Csg Shoe MD(Usft)		600	7.00	%Sand	
End Depth (Usft)	9268.00	9268.00	OD (in)		300	5.00	%Solids	3.38
Total Drilled (Usft)	1535	3138	Weight (lb/ft)		200	4.00	Weight (ppg)	8.90
Slide Drilled (Usft)		199	Bit Data		100	3.00	Fluid Loss	100.00
Rotary Drilled (Usft)	1535	2939	SN	A295458	6	1.00	PH	11.50
Drlg/Circ Hrs	22.08 / 1.92	33.67 / 4.75	Bit #	3	3	1.00	Mud Type	WBM
Slide Drilling Hrs		7.17	OD (in)	9.875	10s Gel	2.00	Oil/Water	
Rotary Drilling Hrs	22.08	26.50	TFA	0.902	Temp(F)	90.00		
ROP Rot/Slide (Usft/hr)	69.51 / 0.00	110.91 / 27.77	Grade In	New	PV	2.00		
BRT Hrs	24.00	46.00	Grade Out	2-4-LT-S-X-I-BT-PR	YP	3.00		
%Slide		6.34	Make	Reed Hycalog	Viscosity	30.00		
%Rotary	100.00	93.66	Model	TK66-U1	Chlorides	53000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Ben Brimhall	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
9 7/8 Reed TK66-U1 PDC - 0.90 (6x14)	9.875					1.50	1.50
8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	8.330					34.25	35.75
9 3/8 Stabilizer with Float	8.020	3.063				7.26	43.01
Shock Meiser	8.000	3.500				3.01	46.02
8 NMDC - Tool Carrier	7.940	3.750				30.30	76.32
8 NMDC	8.060	3.750				28.54	104.86
8 Drill Collars 1 stand (3 joints)	8.000	3.750				87.96	192.82
XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875				3.23	196.05
6.5 Drill Collars 3 stands (9 joints)	6.500	3.000				260.40	456.45
XO 4 1/2 XH pin to CET 43 Box	6.563	2.625				3.65	460.10
10 stands (30 joints) HWDP	5.000	3.000				919.12	1379.22
							1379.22

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP8006	Altitude	AEP	7/8	5.88	1.75	0.18	FBH	7

Surveys

MD (Usft)	INC	AZI	TVD (Usft)	NS (Usft)	EW (Usft)	DLS (deg/100Usft)	TFO	VS (Usft)	BR (deg/100Usft)	TR (deg/100Usft)	CL (Usft)
7745.00	3.15	241.91	7717.82	-254.93	-488.63	0.80	-169.94	-249.20	-0.79	-2.56	95.00
7839.00	1.91	270.64	7811.73	-256.13	-492.48	1.85	148.10	-250.35	-1.32	30.56	94.00
7933.00	1.62	273.84	7905.69	-256.02	-495.37	0.33	162.82	-250.21	-0.31	3.40	94.00
8028.00	0.52	320.67	8000.67	-255.60	-496.98	1.39	163.30	-249.77	-1.16	49.29	95.00
8122.00	0.72	44.68	8094.67	-254.85	-496.84	0.90	121.85	-249.02	0.21	0.00	94.00
8217.00	0.78	47.66	8189.66	-253.99	-495.94	0.08	34.52	-248.17	0.06	0.00	95.00
8312.00	0.99	65.61	8284.65	-253.21	-494.71	0.36	62.06	-247.41	0.22	0.00	95.00
8407.00	1.25	81.03	8379.63	-252.71	-492.94	0.42	57.10	-246.93	0.27	0.00	95.00
8503.00	1.48	92.85	8475.61	-252.61	-490.67	0.38	56.76	-246.85	0.24	0.00	96.00
8598.00	1.36	97.60	8570.58	-252.82	-488.33	0.18	137.91	-247.09	-0.13	0.00	95.00
8693.00	1.02	84.98	8665.56	-252.89	-486.37	0.45	-148.57	-247.19	-0.36	0.00	95.00
8788.00	0.83	81.94	8760.54	-252.72	-484.84	0.21	-167.03	-247.04	-0.20	0.00	95.00
8883.00	0.81	76.64	8855.53	-252.47	-483.51	0.08	-107.41	-246.80	-0.02	0.00	95.00
8978.00	0.38	207.78	8950.53	-252.60	-483.00	1.16	164.89	-246.93	-0.45	0.00	95.00
9073.00	0.27	204.12	9045.53	-253.08	-483.24	0.12	-171.14	-247.41	-0.12	0.00	95.00
9168.00	0.71	65.34	9140.53	-253.04	-482.80	0.98	-149.81	-247.37	0.46	0.00	95.00

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	69.51	27.86	44.00	153.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00
Run	93.21	27.86	44.00	153.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00

MWD Data							
Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics					
Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/13/2023	00:00	00:50	0.83	7733.00	7812.00	79.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7733.00 t/7812.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 94.80, Diff 1000.00
01/13/2023	00:50	00:55	0.08	7812.00	7812.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	00:55	01:00	0.08	7812.00	7822.00	10.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7812.00 t/7822.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 120.00, Diff 1000.00
01/13/2023	01:00	01:50	0.83	7822.00	7842.00	20.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7822.00 t/7842.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 24.00, Diff 1000.00
01/13/2023	01:50	02:30	0.67	7842.00	7906.00	64.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7842.00 t/7906.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 96.00, Diff 1000.00
01/13/2023	02:30	02:35	0.08	7906.00	7906.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	02:35	03:20	0.75	7906.00	8000.00	94.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/7906.00 t/8000.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 125.33, Diff 1000.00
01/13/2023	03:20	03:25	0.08	8000.00	8000.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	03:25	03:30	0.08	8000.00	8010.00	10.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8000.00 t/8010.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 120.00, Diff 1000.00
01/13/2023	03:30	04:30	1.00	8010.00	8035.00	25.00	INT-2	3: BHA 3 Nudge to Vertical	2B	Slide Drill f/8010.00 t/8035.00, TF M, w/WOB 42.00,Flow 750.00, Press 3800.00, Tq 0.00, ROP 25.00, Diff 1000.00
01/13/2023	04:30	05:10	0.67	8035.00	8095.00	60.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8035.00 t/8095.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 90.00, Diff 1000.00
01/13/2023	05:10	05:15	0.08	8095.00	8095.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	05:15	06:15	1.00	8095.00	8189.00	94.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8095.00 t/8189.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 94.00, Diff 1000.00
01/13/2023	06:15	06:20	0.08	8189.00	8189.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	06:20	07:20	1.00	8189.00	8284.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8189.00 t/8284.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 95.00, Diff 1000.00
01/13/2023	07:20	07:25	0.08	8284.00	8284.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	07:25	08:45	1.33	8284.00	8379.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8284.00 t/8379.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 71.25, Diff 1000.00
01/13/2023	08:45	08:50	0.08	8379.00	8379.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	08:50	10:05	1.25	8379.00	8474.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8379.00 t/8474.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 76.00, Diff 1000.00
01/13/2023	10:05	10:10	0.08	8474.00	8474.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	10:10	11:10	1.00	8474.00	8570.00	96.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8474.00 t/8570.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 96.00, Diff 1000.00
01/13/2023	11:10	11:15	0.08	8570.00	8570.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	11:15	12:20	1.08	8570.00	8665.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8570.00 t/8665.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 87.69, Diff 1000.00
01/13/2023	12:20	12:25	0.08	8665.00	8665.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	12:25	13:30	1.08	8665.00	8760.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8665.00 t/8760.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 87.69, Diff 1000.00
01/13/2023	13:30	13:35	0.08	8760.00	8760.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	13:35	15:00	1.42	8760.00	8855.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8760.00 t/8855.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 67.06, Diff 1000.00
01/13/2023	15:00	15:05	0.08	8855.00	8855.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	15:05	16:20	1.25	8855.00	8950.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8855.00 t/8950.00, w/WOB 35.00,Flow 750.00, RPM 60.00, Press 3800.00, Tq 11000.00, ROP 76.00, Diff 1000.00
01/13/2023	16:20	17:00	0.67	8950.00	8950.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	17:00	18:35	1.58	8950.00	8975.00	25.00	INT-2	3: BHA 3 Nudge to Vertical	2B	Slide Drill f/8950.00 t/8975.00, TF M, w/WOB 42,Flow 650, Press 3800.00, Tq 11000.00, ROP 15.79, Diff 1000.00
01/13/2023	18:35	19:50	1.25	8975.00	9045.00	70.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/8975.00 t/9045.00, w/WOB 50,Flow 750, RPM 60, Press 3700, Tq 11000, ROP 56.00, Diff 300.00
01/13/2023	19:50	19:55	0.08	9045.00	9045.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	19:55	21:15	1.33	9045.00	9140.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/9045.00 t/9140.00, w/WOB 50,Flow 750, RPM 60, Press 3700, Tq 11000, ROP 71.25, Diff 300.00
01/13/2023	21:15	21:20	0.08	9140.00	9140.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	21:20	22:30	1.17	9140.00	9235.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/9140.00 t/9235.00, w/WOB 50.00,Flow 750.00, RPM 50.00, Press 3700.00, Tq 11000.00, ROP 81.43, Diff 300.00
01/13/2023	22:30	22:35	0.08	9235.00	9235.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/13/2023	22:35	24:00	1.42	9235.00	9268.00	33.00	INT-2	3: BHA 3 Nudge to Vertical	2B	Slide Drill f/9245.00 t/9268.00, TF M, w/WOB 42.00,Flow 0.00, Press 3700.00, Tq 0.00, ROP 16.24, Diff 300.00

Daily Drilling Report 01/14/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	10	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/14/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Once we finished logging, we began rotating down towards TD for ICP #2. BHA which normally walks right is now walking left with the new bit, right into the target area. Once TD, we will do a 4,000 ft wiper trip, circulate, and pull out of the hole for logging, then casing.

24Hr Lookahead

We will continue drilling towards our ICP #2.

Drilling Summary	24Hr (BHA 4)	Run (BHA 4)	Casing Data		Fluids			
Start Depth (Usft)	9268.00	9755.00	Csg Shoe MD(Usft)		600	7.00	%Sand	
End Depth (Usft)	9755.00	9755.00	OD (in)		300	5.00	%Solids	3.38
Total Drilled (Usft)			Weight (lb/ft)		200	4.00	Weight (ppg)	8.90
Slide Drilled (Usft)			Bit Data		100	3.00	Fluid Loss	100.00
Rotary Drilled (Usft)			SN	A295458	6	1.00	PH	11.50
Drlg/Circ Hrs		0.00 / 0.17	Bit #	3	3	1.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)	9.875	10s Gel	2.00	Oil/Water	
Rotary Drilling Hrs			TFA	0.902	Temp(F)	90.00		
ROP Rot/Slide (Usft/hr)			Grade In	New	PV	2.00		
BRT Hrs	6.50	6.50	Grade Out	2-4-LT-S-X-I-BT-PR	YP	3.00		
%Slide			Make	Reed Hycalog	Viscosity	30.00		
%Rotary			Model	TK66-U1	Chlorides	53000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Ben Brimhall	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
9 7/8 Reed TK66-U1 PDC - 0.90 (6x14)	9.875					1.50	1.50
8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	8.330					34.25	35.75
9 3/8 Stabilizer with Float	8.020	3.063				7.26	43.01
Shock Meiser	8.000	3.500				3.01	46.02
8 NMDC - Tool Carrier	7.940	3.750				30.30	76.32
8 NMDC	8.060	3.750				28.54	104.86
8 Drill Collars 1 stand (3 joints)	8.000	3.750				87.96	192.82
XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875				3.23	196.05
6.5 Drill Collars 3 stands (9 joints)	6.500	3.000				260.40	456.45
XO 4 1/2 XH pin to CET 43 Box	6.563	2.625				3.65	460.10
10 stands (30 joints) HWDP	5.000	3.000				919.12	1379.22
							1379.22

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP8006	Altitude	AEP	7/8	5.88	1.75	0.18	FBH	7

Surveys

MD (Usft)	INC	AZI	TVD (Usft)	NS (Usft)	EW (Usft)	DLS (deg/100Usft)	TFO	VS (Usft)	BR (deg/100Usft)	TR (deg/100Usft)	CL (Usft)
9262.00	1.19	326.78	9234.52	-251.98	-482.80	1.57	-127.01	-246.31	0.51	0.00	94.00
9357.00	1.63	326.79	9329.49	-250.02	-484.08	0.46	0.04	-244.34	0.46	0.00	95.00
9451.00	1.74	346.89	9423.45	-247.51	-485.14	0.64	89.61	-241.82	0.12	21.38	94.00
9546.00	0.61	325.88	9518.43	-245.69	-485.75	1.25	-169.42	-239.99	-1.19	-22.12	95.00
9641.00	0.53	310.77	9613.42	-244.98	-486.37	0.18	-125.44	-239.28	-0.08	0.00	95.00

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	51.72	27.86	44.00	153.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00
Run	84.14	27.86	44.00	153.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics					
Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/14/2023	00:00	00:05	0.08	9268.00	9270.00	2.00	INT-2	3: BHA 3 Nudge to Vertical	2B	Slide Drill f/9268.00 t/9270.00, TF M, w/WOB 42.00,Flow 0.00, Press 3700.00, Tq 0.00, ROP 24.00, Diff 300.00
01/14/2023	00:05	01:20	1.25	9270.00	9329.00	59.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/9270.00 t/9329.00, w/WOB 50.00,Flow 750.00, RPM 45.00, Press 3700.00, Tq 11000.00, ROP 47.20, Diff 300.00
01/14/2023	01:20	01:25	0.08	9329.00	9329.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/14/2023	01:25	03:10	1.75	9329.00	9424.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/9329.00 t/9424.00, w/WOB 50.00,Flow 750.00, RPM 45.00, Press 3700.00, Tq 11000.00, ROP 54.29, Diff 300.00
01/14/2023	03:10	03:15	0.08	9424.00	9424.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/14/2023	03:15	04:40	1.42	9424.00	9518.00	94.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/9424.00 t/9518.00, w/WOB 50.00,Flow 750.00, RPM 45.00, Press 3700.00, Tq 11000.00, ROP 66.35, Diff 300.00
01/14/2023	04:40	04:45	0.08	9518.00	9518.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/14/2023	04:45	04:50	0.08	9518.00	9528.00	10.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/9518.00 t/9528.00, w/WOB 50.00,Flow 750.00, RPM 45.00, Press 3700.00, Tq 11000.00, ROP 120.00, Diff 300.00
01/14/2023	04:50	05:35	0.75	9528.00	9543.00	15.00	INT-2	3: BHA 3 Nudge to Vertical	2B	Slide Drill f/9528.00 t/9543.00, TF M, w/WOB 50.00,Flow 750.00, Press 3700.00, Tq 11000.00, ROP 20.00, Diff 300.00
01/14/2023	05:35	06:50	1.25	9543.00	9613.00	70.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/9543.00 t/9613.00, w/WOB 50.00,Flow 750.00, RPM 45.00, Press 3700.00, Tq 11000.00, ROP 56.00, Diff 300.00
01/14/2023	06:50	06:55	0.08	9613.00	9613.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/14/2023	06:55	08:20	1.42	9613.00	9708.00	95.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/9613.00 t/9708.00, w/WOB 50.00,Flow 750.00, RPM 45.00, Press 3700.00, Tq 11000.00, ROP 67.06, Diff 300.00
01/14/2023	08:20	08:25	0.08	9708.00	9708.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	Survey & Connection
01/14/2023	08:25	09:50	1.42	9708.00	9755.00	47.00	INT-2	3: BHA 3 Nudge to Vertical	2A	Rotary Drill f/9708.00 t/9755.00, w/WOB 50.00,Flow 750.00, RPM 45.00, Press 3700.00, Tq 11000.00, ROP 33.18, Diff 300.00
01/14/2023	09:50	10:50	1.00	9755.00	9755.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	5A	CIRCULATE
01/14/2023	10:50	16:00	5.17	9755.00	9755.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	6G	BIT TRIP
01/14/2023	16:00	16:30	0.50	9755.00	9755.00	0.00	INT-2	3: BHA 3 Nudge to Vertical	6P	Break bit, drain motor
01/14/2023	16:30	17:30	1.00	9755.00	9755.00	0.00	INT-2	4: Nudge to Vertical	6O	pick up new bit, new ubho, new mwd tool
01/14/2023	17:30	18:00	0.50	9755.00	9755.00	0.00	INT-2	4: Nudge to Vertical	24A	test mwd, prepare to TIH.
01/14/2023	18:00	23:50	5.83	9755.00	9755.00	0.00	INT-2	4: Nudge to Vertical	6A	Run in hole with BHA #4
01/14/2023	23:50	24:00	0.17	9755.00	9755.00	0.00	INT-2	4: Nudge to Vertical	5A	Relog last 100 feet

Daily Drilling Report 01/15/2023

Job #	AEP-PB-230022	**Operator**	Matador Resources
API Job # / AFE #	30-025-50845 / 500002.850.01.001	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Report #	11	**Well**	Uncle Richard State Com 213H
Latitude:	32° 10' 2.761" N	**Longitude**	103° 16' 58.029" W
Rig:	Patterson 256	**County / State**	Lea / New Mexico
Date:	01/15/2023	**Report Time**	00:00-24:00
Daily Cost(USD)		**Well Cost(USD)**	

24Hr Summary

Drilled to a casing point of 10618. BHA Was in the table at midnight, so there will be no insurance charge for the 16th. Layed tools down and prepared for logging.

24Hr Lookahead

Company man figures two runs with the loggers should take us almost 20 hours, so should be close to running in the hole for cleanout trip prior to running casing the night of the 16th.

Drilling Summary	24Hr (BHA 4)	Run (BHA 4)	Casing Data		Fluids			
Start Depth (Usft)	9755.00	9755.00	**Csg Shoe MD(Usft)**		**600**	7.00	**%Sand**	
End Depth (Usft)	10618.00	10618.00	**OD (in)**		**300**	5.00	**%Solids**	3.38
Total Drilled (Usft)	863	863	**Weight (lb/ft)**		**200**	4.00	**Weight (ppg)**	8.90
Slide Drilled (Usft)			**Bit Data**		**100**	3.00	**Fluid Loss**	100.00
Rotary Drilled (Usft)	863	863	**SN**	5339683	**6**	1.00	**PH**	11.50
Drlg/Circ Hrs	8.67 / 6.00	8.67 / 6.17	**Bit #**	4	**3**	1.00	**Mud Type**	WBM
Slide Drilling Hrs			**OD (in)**	9.875	**10s Gel**	2.00	**Oil/Water**	
Rotary Drilling Hrs	8.67	8.67	**TFA**	0.902	**Temp(F)**	90.00		
ROP Rot/Slide (Usft/hr)	99.58 / 0.00	99.58 / 0.00	**Grade In**	New	**PV**	2.00		
BRT Hrs	24.00	30.50	**Grade Out**	1-1-BT-G-X-I-NO-TD	**YP**	3.00		
%Slide			**Make**	Baker Hughes	**Viscosity**	30.00		
%Rotary	100.00	100.00	**Model**	D507VTWX	**Chlorides**	53000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Ben Brimhall	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
9 7/8 Baker D507VTWX PDC - 0.90 (6x14)	9.875					1.50	1.50
8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	8.330					34.25	35.75
9 3/8 Stabilizer with Float	8.020	3.063				7.26	43.01
Shock Meiser	8.000	3.500				3.16	46.17
8 NMDC - Tool Carrier	7.940	3.750				30.30	76.47
8 NMDC	8.060	3.750				28.54	105.01
8 Drill Collars 1 stand (3 joints)	8.000	3.750				87.96	192.97
XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875				3.23	196.20
6.5 Drill Collars 3 stands (9 joints)	6.500	3.000				260.40	456.60
XO 4 1/2 XH pin to CET 43 Box	6.563	2.625				3.65	460.25
10 stands (30 joints) HWDP	5.000	3.000				919.12	1379.37
							1379.37

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP8006	Altitude	AEP	7/8	5.88	1.75	0.18	FBH	7

Surveys

MD (Usft)	INC	AZI	TVD (Usft)	NS (Usft)	EW (Usft)	DLS (deg/100Usft)	TFO	VS (Usft)	BR (deg/100Usft)	TR (deg/100Usft)	CL (Usft)
9736.00	0.66	280.95	9708.42	-244.59	-487.24	0.35	-82.60	-238.88	0.14	0.00	95.00
9830.00	0.66	253.36	9802.41	-244.65	-488.29	0.33	-103.79	-238.92	0.00	0.00	94.00
9926.00	0.76	245.15	9898.41	-245.07	-489.40	0.15	-49.65	-239.33	0.10	0.00	96.00
10021.00	0.72	242.01	9993.40	-245.62	-490.49	0.06	-136.17	-239.86	-0.04	0.00	95.00
10116.00	0.81	251.29	10088.39	-246.11	-491.66	0.16	58.71	-240.35	0.09	0.00	95.00
10211.00	0.84	248.78	10183.38	-246.58	-492.94	0.05	-51.56	-240.80	0.03	0.00	95.00
10305.00	0.93	248.30	10277.37	-247.11	-494.29	0.10	-4.95	-241.31	0.10	0.00	94.00
10400.00	1.55	259.84	10372.35	-247.62	-496.27	0.70	27.78	-241.80	0.65	0.00	95.00
10495.00	1.74	270.28	10467.31	-247.84	-498.98	0.37	62.92	-241.99	0.20	10.99	95.00
10551.00	1.53	278.34	10523.28	-247.73	-500.57	0.56	136.38	-241.86	-0.38	14.39	56.00

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	99.58	27.86	44.00	153.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00
Run	99.58	27.86	44.00	153.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00

Released to Imaging: 5/5/2026 9:27:39 AM

MWD Data							
Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics					
Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/15/2023	00:00	00:25	0.42	9755.00	9755.00	0.00	INT-2	4: Nudge to Vertical	5A	Survey & Connection
01/15/2023	00:25	00:55	0.50	9755.00	9803.00	48.00	INT-2	4: Nudge to Vertical	2A	Rotary Drill f/9755.00 t/9803.00, w/WOB 35,Flow 750, RPM60, Press 4000, Tq 15, ROP 96.00, Diff 500.00
01/15/2023	00:55	01:00	0.08	9803.00	9803.00	0.00	INT-2	4: Nudge to Vertical	5A	Survey & Connection
01/15/2023	01:00	01:35	0.58	9803.00	9897.00	94.00	INT-2	4: Nudge to Vertical	2A	Rotary Drill f/9803.00 t/9897.00, w/WOB 35,Flow 750, RPM60, Press 4000, Tq 15, ROP 161.14, Diff 500.00
01/15/2023	01:35	01:40	0.08	9897.00	9897.00	0.00	INT-2	4: Nudge to Vertical	5A	Survey & Connection
01/15/2023	01:40	02:25	0.75	9897.00	9993.00	96.00	INT-2	4: Nudge to Vertical	2A	Rotary Drill f/9897.00 t/9993.00, w/WOB 35,Flow 750, RPM60, Press 4000, Tq 15, ROP 128.00, Diff 500.00
01/15/2023	02:25	02:30	0.08	9993.00	9993.00	0.00	INT-2	4: Nudge to Vertical	5A	Survey & Connection
01/15/2023	02:30	03:15	0.75	9993.00	10088.00	95.00	INT-2	4: Nudge to Vertical	2A	Rotary Drill f/9993.00 t/10088.00, w/WOB 35,Flow 750, RPM60, Press 4000, Tq 15, ROP 126.67, Diff 500.00
01/15/2023	03:15	03:20	0.08	10088.00	10088.00	0.00	INT-2	4: Nudge to Vertical	5A	Survey & Connection
01/15/2023	03:20	04:15	0.92	10088.00	10183.00	95.00	INT-2	4: Nudge to Vertical	2A	Rotary Drill f/10088.00 t/10183.00, w/WOB 35,Flow 750, RPM60, Press 4000, Tq 15, ROP 103.64, Diff 500.00
01/15/2023	04:15	04:20	0.08	10183.00	10183.00	0.00	INT-2	4: Nudge to Vertical	5A	Survey & Connection
01/15/2023	04:20	05:15	0.92	10183.00	10278.00	95.00	INT-2	4: Nudge to Vertical	2A	Rotary Drill f/10183.00 t/10278.00, w/WOB 35,Flow 750, RPM60, Press 4000, Tq 15, ROP 103.64, Diff 500.00
01/15/2023	05:15	05:20	0.08	10278.00	10278.00	0.00	INT-2	4: Nudge to Vertical	5A	Survey & Connection
01/15/2023	05:20	06:25	1.08	10278.00	10372.00	94.00	INT-2	4: Nudge to Vertical	2A	Rotary Drill f/10278.00 t/10372.00, w/WOB 35,Flow 750, RPM60, Press 4000, Tq 15, ROP 86.77, Diff 500.00
01/15/2023	06:25	06:30	0.08	10372.00	10372.00	0.00	INT-2	4: Nudge to Vertical	5A	Survey & Connection
01/15/2023	06:30	07:45	1.25	10372.00	10467.00	95.00	INT-2	4: Nudge to Vertical	2A	Rotary Drill f/10372.00 t/10467.00, w/WOB 35,Flow 750, RPM60, Press 4000, Tq 15, ROP 76.00, Diff 500.00
01/15/2023	07:45	07:50	0.08	10467.00	10467.00	0.00	INT-2	4: Nudge to Vertical	5A	Survey & Connection
01/15/2023	07:50	09:05	1.25	10467.00	10562.00	95.00	INT-2	4: Nudge to Vertical	2A	Rotary Drill f/10467.00 t/10562.00, w/WOB 35,Flow 750, RPM60, Press 4000, Tq 15, ROP 76.00, Diff 500.00
01/15/2023	09:05	09:10	0.08	10562.00	10562.00	0.00	INT-2	4: Nudge to Vertical	5A	Survey & Connection
01/15/2023	09:10	09:50	0.67	10562.00	10618.00	56.00	INT-2	4: Nudge to Vertical	2A	Rotary Drill f/10562.00 t/10618.00, w/WOB 35,Flow 750, RPM60, Press 4000, Tq 15, ROP 84.00, Diff 500.00
01/15/2023	09:50	11:05	1.25	10618.00	10618.00	0.00	INT-2	4: Nudge to Vertical	5A	Circulate and clean hole
01/15/2023	11:05	15:45	4.67	10618.00	10618.00	0.00	INT-2	4: Nudge to Vertical	6B	POOH
01/15/2023	15:45	19:20	3.58	10618.00	10618.00	0.00	INT-2	4: Nudge to Vertical	5A	circulate again
01/15/2023	19:20	23:30	4.17	10618.00	10618.00	0.00	INT-2	4: Nudge to Vertical	6B	POOH to log
01/15/2023	23:30	24:00	0.50	10618.00	10618.00	0.00	INT-2	4: Nudge to Vertical	6P	Start laying down BHA

Daily Drilling Report 01/16/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	12	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/16/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Finished laying down tools that were above the table. Rigged up and began logging ICP #2.

24Hr Lookahead

Should be finishing up with logging just after midnight, and running casing. Because logs went to bottom no problem, they have decided against doing the wiper trip. We should be cemented by early evening, and BHA #5 should be picked up just before or just after midnight. Matador was informed about the insurance charge when tools are below the table before midnight, so guessing they will make sure everything is done before picking up directional tools.

Drilling Summary	24Hr (BHA 4)	Run (BHA 4)	Casing Data		Fluids			
Start Depth (Usft)	10618.00	9755.00	Csg Shoe MD(Usft)		600	7.00	%Sand	
End Depth (Usft)	10618.00	10618.00	OD (in)		300	5.00	%Solids	3.38
Total Drilled (Usft)		863	Weight (lb/ft)		200	4.00	Weight (ppg)	8.90
Slide Drilled (Usft)			Bit Data		100	3.00	Fluid Loss	100.00
Rotary Drilled (Usft)		863	SN	5339683	6	1.00	PH	11.50
Drlg/Circ Hrs		8.67 / 6.17	Bit #	4	3	1.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)	9.875	10s Gel	2.00	Oil/Water	
Rotary Drilling Hrs		8.67	TFA	0.902	Temp(F)	90.00		
ROP Rot/Slide (Usft/hr)		99.58 / 0.00	Grade In	New	PV	2.00		
BRT Hrs	1.50	32.00	Grade Out	1-1-BT-G-X-I-NO-TD	YP	3.00		
%Slide			Make	Baker Hughes	Viscosity	30.00		
%Rotary		100.00	Model	D507VTWX	Chlorides	53000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Ben Brimhall	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
9 7/8 Baker D507VTWX PDC - 0.90 (6x14)	9.875					1.50	1.50
8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	8.330					34.25	35.75
9 3/8 Stabilizer with Float	8.020	3.063				7.26	43.01
Shock Meiser	8.000	3.500				3.16	46.17
8 NMDC - Tool Carrier	7.940	3.750				30.30	76.47
8 NMDC	8.060	3.750				28.54	105.01
8 Drill Collars 1 stand (3 joints)	8.000	3.750				87.96	192.97
XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875				3.23	196.20
6.5 Drill Collars 3 stands (9 joints)	6.500	3.000				260.40	456.60
XO 4 1/2 XH pin to CET 43 Box	6.563	2.625				3.65	460.25
10 stands (30 joints) HWDP	5.000	3.000				919.12	1379.37
							1379.37

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP8006	Altitude	AEP	7/8	5.88	1.75	0.18	FBH	7

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	27.86	44.00	153.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00
Run	99.58	27.86	44.00	153.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/16/2023	00:00	01:30	1.50	10618.00	10618.00	0.00	INT-2	4: Nudge to Vertical	6P	Finish laying out BHA
01/16/2023	01:30	02:30	1.00	10618.00	10618.00	0.00	INT-2		24A	Rig up to log
01/16/2023	02:30	24:00	21.50	10618.00	10618.00	0.00	INT-2		11A	Wireline logs

Daily Drilling Report 01/17/2023

Job #	AEP-PB-230022	**Operator**	Matador Resources
API Job # / AFE #	30-025-50845 / 500002.850.01.001	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Report #	13	**Well**	Uncle Richard State Com 213H
Latitude:	32° 10' 2.761" N	**Longitude**	103° 16' 58.029" W
Rig:	Patterson 256	**County / State**	Lea / New Mexico
Date:	01/17/2023	**Report Time**	00:00-24:00
Daily Cost(USD)		**Well Cost(USD)**	

24Hr Summary

Rig finished up with the wireline, ran casing, and cemented. Rig was finished up with the wear bushing and prepared to pick up BHA.

24Hr Lookahead

BHA is up and running in the hole. We have a displace as well as a slip and cut prior to drill out. We should be drilled out around 9ish, and will begin straightening our well, then begin our reverse nudge to set us up for our sidetrack when we latter push off the cement plug.

Drilling Summary	24Hr ()	Run ()	Casing Data	Fluids			
Start Depth (Usft)	10618.00		**Csg Shoe MD(Usft)**	**600**	7.00	**%Sand**	
End Depth (Usft)	10618.00	10618.00	**OD (in)**	**300**	5.00	**%Solids**	3.38
Total Drilled (Usft)			**Weight (lb/ft)**	**200**	4.00	**Weight (ppg)**	8.90
Slide Drilled (Usft)			**Bit Data**	**100**	3.00	**Fluid Loss**	100.00
Rotary Drilled (Usft)			**SN**	**6**	1.00	**PH**	11.50
Drlg/Circ Hrs		0.00 / 2.08	**Bit #**	**3**	1.00	**Mud Type**	WBM
Slide Drilling Hrs			**OD (in)**	**10s Gel**	2.00	**Oil/Water**	
Rotary Drilling Hrs			**TFA**	**Temp(F)**	90.00		
ROP Rot/Slide (Usft/hr)			**Grade In**	**PV**	2.00		
BRT Hrs			**Grade Out**	**YP**	3.00		
%Slide			**Make**	**Viscosity**	30.00		
%Rotary			**Model**	**Chlorides**	53000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Ben Brimhall	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	27.86	44.00	341.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00
Run	0.00	27.86	44.00	341.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				**Orifice**		**Plug In Date**	
Driver				**Orifice Type**		**Plug In Time**	
Directional				**Pulse Width**		**Plug Out Date**	
Battery 1				**Data Rate**		**Plug Out Time**	
Battery 2				**EM Power**		**Plug In Hrs Tot**	0.00
Battery 3				**EM Freq**		**Plug In Hrs Day**	0.00
Gamma				**Fin Size (in)**		**Circ Hrs Total**	0.00
Helix				**Non Mag Above/Below**	0.00 / 0.00	**Circ Hours Day**	0.00

Magnetics

Total Field	47469.900	**Declination**	6.300	**Total Correction**	5.741
Dip Angle	59.683	**Grid Convergence**	0.559	**North Ref**	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/17/2023	00:00	03:30	3.50	10618.00	10618.00	0.00	INT-2		11A	wireline
01/17/2023	03:30	15:00	11.50	10618.00	10618.00	0.00	INT-2		12B	run casing
01/17/2023	15:00	22:30	7.50	10618.00	10618.00	0.00	INT-2		12E	cement ops
01/17/2023	22:30	24:00	1.50	10618.00	10618.00	0.00	INT-2		1B	Tear out cements, prepare to pick up BHA #5

Daily Drilling Report 01/18/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	14	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/18/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Picked up BHA#5 and ran in the hole. Slipped and cut, displaced hole to a polymer and drilled out. Once out we performed a FIT test, then began drilling. We attempted 2 bumps to correct the well path prior to the nudge. Kicked off the nudge as per the drilling program at 10978 feet. Instead of going straight south at 3°, we ended up at 3.56° @ 127 Az. Rotate two stands as per program.

24Hr Lookahead

Well was dropping nicely and did not require any slide down. At 11396 the string pressured up, and we were not able to drill with the new high pressure. On the Pason we did see almost 4800 PSI. Calls were made, and we are POOH for BHA

Drilling Summary	24Hr (BHA 5)	Run (BHA 5)	Casing Data		Fluids			
Start Depth (Usft)	10618.00	10618.00	Csg Shoe MD(Usft)		600	7.00	%Sand	
End Depth (Usft)	11128.00	11128.00	OD (in)		300	5.00	%Solids	3.38
Total Drilled (Usft)	510	510	Weight (lb/ft)		200	4.00	Weight (ppg)	8.90
Slide Drilled (Usft)		65	Bit Data		100	3.00	Fluid Loss	100.00
Rotary Drilled (Usft)	510	445	SN	5327714	6	1.00	PH	11.50
Drlg/Circ Hrs	11.08 / 2.08	11.08 / 2.08	Bit #	5	3	1.00	Mud Type	WBM
Slide Drilling Hrs		3.92	OD (in)	6.750	10s Gel	2.00	Oil/Water	
Rotary Drilling Hrs	11.08	7.17	TFA	0.775	Temp(F)	90.00		
ROP Rot/Slide (Usft/hr)	46.02 / 0.00	62.09 / 16.60	Grade In	New	PV	2.00		
BRT Hrs	21.00	21.00	Grade Out	1-2-BT-S-X-I-LT-PP	YP	3.00		
%Slide		12.75	Make	Baker Hughes	Viscosity	30.00		
%Rotary	100.00	87.25	Model	DD406VTH	Chlorides	53000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Ben Brimhall	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
6.75 Baker DD406VTH PDC Drill Bit - 0.78 (3x9, 3x16)	6.750					1.00	1.00
5 - 7/8 7.0 Motor @ 1.83deg FBH	5.000					34.54	35.54
Float Sub for 3.5 IF Float	5.020	2.250				4.07	39.61
Shock Meiser - HF	5.000					3.56	43.17
MWD NMDC	5.000	2.750				30.37	73.54
NMDC	5.000	2.750				31.07	104.61
Steel X/O	5.370	2.690				5.20	109.81
10 stands (30 joints) HWDP	5.000	3.000				919.12	1028.93
							1028.93

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP5064	Altitude	AEP	7/8	4.91	1.83	0.49	FBH	7

Surveys

MD (Usft)	INC	AZI	TVD (Usft)	NS (Usft)	EW (Usft)	DLS (deg/100Usft)	TFO	VS (Usft)	BR (deg/100Usft)	TR (deg/100Usft)	CL (Usft)
10714.00	1.55	4.97	10686.24	-245.22	-502.53	1.30	132.91	-239.32	0.01	53.15	163.00

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	46.02	27.86	44.00	341.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00
Run	46.02	27.86	44.00	341.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/18/2023	00:00	00:30	0.50	10618.00	10618.00	0.00	INT-2		1B	Finish rigging up for BHA
01/18/2023	00:30	03:00	2.50	10618.00	10618.00	0.00	INT-3	5: Pilot Hole	6O	Pick up BHA #5
01/18/2023	03:00	03:10	0.17	10618.00	10618.00	0.00	INT-3	5: Pilot Hole	5H	
01/18/2023	03:10	08:30	5.33	10618.00	10618.00	0.00	INT-3	5: Pilot Hole	6A	Run in hole with BHA #5
01/18/2023	08:30	10:00	1.50	10618.00	10618.00	0.00	INT-3	5: Pilot Hole	9A	
01/18/2023	10:00	10:30	0.50	10618.00	10618.00	0.00	INT-3	5: Pilot Hole	8P	
01/18/2023	10:30	11:00	0.50	10618.00	10618.00	0.00	INT-3	5: Pilot Hole	6J	
01/18/2023	11:00	12:30	1.50	10618.00	10618.00	0.00	INT-3	5: Pilot Hole	5A	Displace while Drilling Float.
01/18/2023	12:30	14:25	1.92	10618.00	10685.00	67.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/10618.00 t/10685.00, w/WOB 25,Flow 300, RPM 50, Press 3200, Tq 9, ROP 34.96, Diff 800.00
01/18/2023	14:25	14:30	0.08	10685.00	10685.00	0.00	INT-3	5: Pilot Hole	5A	Survey & Connection
01/18/2023	14:30	15:20	0.83	10685.00	10700.00	15.00	INT-3	5: Pilot Hole	2B	Slide Drill f/10685.00 t/10700.00, TF M, w/WOB 25.00,Flow 300.00, Press 3200.00, Tq 9.00, ROP 18.00, Diff 800.00
01/18/2023	15:20	16:00	0.67	10700.00	10778.00	78.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/10700.00 t/10778.00, w/WOB 25.00,Flow 300.00, RPM 50.00, Press 3200.00, Tq 9.00, ROP 117.00, Diff 800.00
01/18/2023	16:00	16:05	0.08	10778.00	10778.00	0.00	INT-3	5: Pilot Hole	5A	Survey & Connection
01/18/2023	16:05	16:50	0.75	10778.00	10872.00	94.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/10778.00 t/10872.00, w/WOB 25.00,Flow 300.00, RPM 50.00, Press 3200.00, Tq 9.00, ROP 125.33, Diff 800.00
01/18/2023	16:50	16:55	0.08	10872.00	10872.00	0.00	INT-3	5: Pilot Hole	5A	Survey & Connection
01/18/2023	16:55	17:05	0.17	10872.00	10885.00	13.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/10872.00 t/10885.00, w/WOB 25.00,Flow 300.00, RPM 50.00, Press 3200.00, Tq 9.00, ROP 78.00, Diff 800.00
01/18/2023	17:05	18:00	0.92	10885.00	10900.00	15.00	INT-3	5: Pilot Hole	2B	Slide Drill f/10885.00 t/10900.00, TF M, w/WOB 25.00,Flow 300.00, Press 3200.00, Tq 9.00, ROP 16.36, Diff 800.00
01/18/2023	18:00	18:55	0.92	10900.00	10966.00	66.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/10900.00 t/10966.00, w/WOB 25.00,Flow 300.00, RPM 50.00, Press 3200.00, Tq 9.00, ROP 72.00, Diff 800.00
01/18/2023	18:55	19:00	0.08	10966.00	10966.00	0.00	INT-3	5: Pilot Hole	5A	Survey & Connection
01/18/2023	19:00	19:20	0.33	10966.00	10978.00	12.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/10966.00 t/10978.00, w/WOB 25.00,Flow 300.00, RPM 50.00, Press 3200.00, Tq 9.00, ROP 36.00, Diff 800.00
01/18/2023	19:20	21:30	2.17	10978.00	11013.00	35.00	INT-3	5: Pilot Hole	2B	Slide Drill f/10978.00 t/11013.00, TF M, w/WOB 25.00,Flow 300.00, Press 3200.00, Tq 9.00, ROP 16.15, Diff 800.00
01/18/2023	21:30	22:30	1.00	11013.00	11060.00	47.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/11013.00 t/11060.00, w/WOB 25.00,Flow 300.00, RPM 50.00, Press 3200.00, Tq 9.00, ROP 47.00, Diff 800.00
01/18/2023	22:30	22:35	0.08	11060.00	11060.00	0.00	INT-3	5: Pilot Hole	5A	Survey & Connection
01/18/2023	22:35	24:00	1.42	11060.00	11128.00	68.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/11060.00 t/11128.00, w/WOB 25.00,Flow 300.00, RPM 50.00, Press 3200.00, Tq 9.00, ROP 48.00, Diff 800.00

Daily Drilling Report 01/19/2023

Job #	AEP-PB-230022	**Operator**	Matador Resources
API Job # / AFE #	30-025-50845 / 500002.850.01.001	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Report #	15	**Well**	Uncle Richard State Com 213H
Latitude:	32° 10' 2.761" N	**Longitude**	103° 16' 58.029" W
Rig:	Patterson 256	**County / State**	Lea / New Mexico
Date:	01/19/2023	**Report Time**	00:00-24:00
Daily Cost(USD)		**Well Cost(USD)**	

24Hr Summary

BHA pressured up and unable to circulate at normal flow rates. POOH and swapped out motor, float sub, UBHO and MWD collar. Ran back in the hole and logged our last 100 feet of hole. On bottom we are had an issue with our first survey where the tool is continuously pulsing and not stopping for surveys. Did trouble shooting, and in there we rotated 10 feet to get through the rotating head. Once through we tried to recycle the pump, and the tool started working. Game on. Once drilling we started nudging the well back to its vertical point.

24Hr Lookahead

Drilling away in vertical section. Roughly 1500 feet to go.

Drilling Summary	24Hr (BHA 6)	Run (BHA 6)	Casing Data		Fluids			
Start Depth (Usft)	11128.00	11396.00	**Csg Shoe MD(Usft)**		**600**	37.00	**%Sand**	0.15
End Depth (Usft)	11594.00	11594.00	**OD (in)**		**300**	24.00	**%Solids**	12.00
Total Drilled (Usft)	198	198	**Weight (lb/ft)**		**200**	19.00	**Weight (ppg)**	11.00
Slide Drilled (Usft)		30	**Bit Data**		**100**	15.00	**Fluid Loss**	8.00
Rotary Drilled (Usft)	198	168	**SN**	5327714	**6**	5.00	**PH**	10.00
Drlg/Circ Hrs	3.00 / 1.75	3.00 / 1.75	**Bit #**	5	**3**	4.00	**Mud Type**	WBM
Slide Drilling Hrs		1.42	**OD (in)**	6.750	**10s Gel**	5.00	**Oil/Water**	
Rotary Drilling Hrs	3.00	1.58	**TFA**	0.775	**Temp(F)**	98.00		
ROP Rot/Slide (Usft/hr)	66.00 / 0.00	106.11 / 21.18	**Grade In**	New	**PV**	13.00		
BRT Hrs	11.00	11.00	**Grade Out**	1-2-BT-S-X-I-LT-PP	**YP**	11.00		
%Slide		15.15	**Make**	Baker Hughes	**Viscosity**	47.00		
%Rotary	100.00	84.85	**Model**	DD406VTH	**Chlorides**	158500.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
6.75 Baker DD406VTH PDC Drill Bit - 0.78 (3x9, 3x16)	6.750					1.00	1.00
5 - 7/8 7.0 Motor @ 1.83deg FBH	5.000					34.54	35.54
Float Sub for 3.5 IF Float	5.020	2.250				4.07	39.61
Shock Meiser - HF	5.000					3.56	43.17
MWD NMDC	5.000	2.750				30.37	73.54
NMDC	5.000	2.750				31.07	104.61
Steel X/O	5.370	2.690				5.20	109.81
10 stands (30 joints) HWDP	5.000	3.000				919.12	1028.93
							1028.93

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP5064	Altitude	AEP	7/8	4.91	1.83	0.49	FBH	7

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	67.00	27.86	44.00	457.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00
Run	51.58	27.86	44.00	457.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				**Orifice**		**Plug In Date**	
Driver				**Orifice Type**		**Plug In Time**	
Directional				**Pulse Width**		**Plug Out Date**	
Battery 1				**Data Rate**		**Plug Out Time**	
Battery 2				**EM Power**		**Plug In Hrs Tot**	0.00
Battery 3				**EM Freq**		**Plug In Hrs Day**	0.00
Gamma				**Fin Size (in)**		**Circ Hrs Total**	0.00
Helix				**Non Mag Above/Below**	0.00 / 0.00	**Circ Hours Day**	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/19/2023	00:00	00:35	0.58	11128.00	11155.00	27.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/11128.00 t/11155.00, w/WOB 25.00,Flow 300.00, RPM 50.00, Press 3200.00, Tq 9.00, ROP 46.29, Diff 800.00
01/19/2023	00:35	00:40	0.08	11155.00	11155.00	0.00	INT-3	5: Pilot Hole	5A	Survey & Connection
01/19/2023	00:40	02:10	1.50	11155.00	11250.00	95.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/11155.00 t/11250.00, w/WOB 25.00,Flow 300.00, RPM 50.00, Press 3200.00, Tq 9.00, ROP 63.33, Diff 800.00
01/19/2023	02:10	02:15	0.08	11250.00	11250.00	0.00	INT-3	5: Pilot Hole	5A	Survey & Connection
01/19/2023	02:15	03:30	1.25	11250.00	11343.00	93.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/11250.00 t/11343.00, w/WOB 25.00,Flow 300.00, RPM 50.00, Press 3200.00, Tq 9.00, ROP 74.40, Diff 800.00
01/19/2023	03:30	03:35	0.08	11343.00	11343.00	0.00	INT-3	5: Pilot Hole	5A	Survey & Connection
01/19/2023	03:35	04:15	0.67	11343.00	11396.00	53.00	INT-3	5: Pilot Hole	2A	Rotary Drill f/11343.00 t/11396.00, w/WOB 25.00,Flow 300.00, RPM 50.00, Press 3200.00, Tq 9.00, ROP 79.50, Diff 800.00
01/19/2023	04:15	05:00	0.75	11396.00	11396.00	0.00	INT-3	5: Pilot Hole	24A	troubleshoot pressure increase.
01/19/2023	05:00	11:00	6.00	11396.00	11396.00	0.00	INT-3	5: Pilot Hole	6B	pooh for psi increase
01/19/2023	11:00	12:00	1.00	11396.00	11396.00	0.00	INT-3	5: Pilot Hole	6P	LD BHA due to bent UBHO/NMDC
01/19/2023	12:00	13:00	1.00	11396.00	11396.00	0.00	INT-3	6: Pilot Hole - 2	6O	test same
01/19/2023	13:00	18:40	5.67	11396.00	11396.00	0.00	INT-3	6: Pilot Hole - 2	6A	
01/19/2023	18:40	20:15	1.58	11396.00	11396.00	0.00	INT-3	6: Pilot Hole - 2	5A	wash/ream to bottom
01/19/2023	20:15	20:40	0.42	11396.00	11438.00	42.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/11396.00 t/11438.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 100.80, Diff 750.00
01/19/2023	20:40	20:45	0.08	11438.00	11438.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/19/2023	20:45	21:20	0.58	11438.00	11438.00	0.00	INT-3	6: Pilot Hole - 2	25B	Trouble shoot MWD - Pulser wont stop pulsing
01/19/2023	21:20	21:30	0.17	11438.00	11448.00	10.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/11438.00 t/11448.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 60.00, Diff 750.00
01/19/2023	21:30	22:55	1.42	11448.00	11478.00	30.00	INT-3	6: Pilot Hole - 2	2B	Slide Drill f/11448.00 t/11478.00, TF M, w/WOB 25.00,Flow 375.00, Press 3000.00, Tq 12000.00, ROP 21.18, Diff 750.00
01/19/2023	22:55	23:25	0.50	11478.00	11532.00	54.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/11478.00 t/11532.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 108.00, Diff 750.00
01/19/2023	23:25	23:30	0.08	11532.00	11532.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/19/2023	23:30	24:00	0.50	11532.00	11594.00	62.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/11532.00 t/11594.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 124.00, Diff 750.00

Daily Drilling Report 01/20/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	16	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/20/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary
Drilling away in the vertical section. ROP is slowing down and we are definately in the harder formation.

24Hr Lookahead
Continue drilling in harder formation. ROP likes to vary between 25 - 50. Keep rotating away, roughly 950 feet to go.

Drilling Summary	24Hr (BHA 6)	Run (BHA 6)	Casing Data		Fluids			
Start Depth (Usft)	11594.00	11396.00	Csg Shoe MD(Usft)		600	34.00	%Sand	
End Depth (Usft)	12434.00	12434.00	OD (in)		300	22.00	%Solids	12.00
Total Drilled (Usft)	840	1038	Weight (lb/ft)		200	18.00	Weight (ppg)	11.00
Slide Drilled (Usft)		91	Bit Data		100	14.00	Fluid Loss	7.00
Rotary Drilled (Usft)	840	947	SN	A296116	6	4.00	PH	10.00
Drlg/Circ Hrs	15.75 / 5.75	18.75 / 7.50	Bit #	6	3	3.00	Mud Type	WBM
Slide Drilling Hrs		5.50	OD (in)	6.750	10s Gel	4.00	Oil/Water	
Rotary Drilling Hrs	15.75	13.25	TFA	0.933	Temp(F)	101.00		
ROP Rot/Slide (Usft/hr)	53.33 / 0.00	71.47 / 16.55	Grade In	New	PV	12.00		
BRT Hrs	24.00	35.00	Grade Out	1-2-WT-S-X-I-BT-PR	YP	10.00		
%Slide		8.77	Make	Reed Hycalog	Viscosity	45.00		
%Rotary	100.00	91.23	Model	TKC73-A4	Chlorides	154000.00		

Personnel												
Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA							
Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
6.75 Reed TKC73-A4 PDC Drill Bit - 0.93 (3x12, 4x14)	6.750					1.00	1.00
5 - 6/7 8.8 Motor @ 1.75deg FBH	5.000					34.96	35.96
Float Sub for 3.5 IF Float	5.000	2.250				3.14	39.10
Shock Meiser - HF	5.000	2.375				3.55	42.65
5 NMDC	5.063	2.750				31.04	73.69
NMDC	5.000	2.750				31.07	104.76
Steel X/O	5.370	2.690				5.20	109.96
10 STANDS HWDP	5.000	3.000				919.12	1029.08
							1029.08

Motor Details								
SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP5017	Altitude	AEP	6/7	4.91	1.75	0.68	FBH	8.8

Drilling Parameters													
	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	53.33	27.86	44.00	457.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00
Run	55.36	27.86	44.00	457.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00

MWD Data							
Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics					
Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/20/2023	00:00	00:20	0.33	11594.00	11627.00	33.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/11594.00 t/11627.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 99.00, Diff 750.00
01/20/2023	00:20	00:25	0.08	11627.00	11627.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/20/2023	00:25	00:30	0.08	11627.00	11637.00	10.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/11627.00 t/11637.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 120.00, Diff 750.00
01/20/2023	00:30	01:35	1.08	11637.00	11657.00	20.00	INT-3	6: Pilot Hole - 2	2B	Slide Drill f/11637.00 t/11657.00, TF M, w/WOB 25.00,Flow 375.00, Press 3000.00, Tq 12000.00, ROP 18.46, Diff 750.00
01/20/2023	01:35	02:05	0.50	11657.00	11722.00	65.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/11657.00 t/11722.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 130.00, Diff 750.00
01/20/2023	02:05	02:10	0.08	11722.00	11722.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/20/2023	02:10	03:05	0.92	11722.00	11817.00	95.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/11722.00 t/11817.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 103.64, Diff 750.00
01/20/2023	03:05	03:10	0.08	11817.00	11817.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/20/2023	03:10	03:20	0.17	11817.00	11827.00	10.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/11817.00 t/11827.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 60.00, Diff 750.00
01/20/2023	03:20	04:00	0.67	11827.00	11837.00	10.00	INT-3	6: Pilot Hole - 2	2B	Slide Drill f/11827.00 t/11837.00, TF M, w/WOB 25.00,Flow 375.00, Press 3000.00, Tq 12000.00, ROP 15.00, Diff 750.00
01/20/2023	04:00	04:40	0.67	11837.00	11911.00	74.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/11837.00 t/11911.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 111.00, Diff 750.00
01/20/2023	04:40	04:45	0.08	11911.00	11911.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/20/2023	04:45	05:45	1.00	11911.00	12006.00	95.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/11911.00 t/12006.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 95.00, Diff 750.00
01/20/2023	05:45	05:50	0.08	12006.00	12006.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/20/2023	05:50	05:55	0.08	12006.00	12015.00	9.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/12006.00 t/12015.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 108.00, Diff 750.00
01/20/2023	05:55	07:10	1.25	12015.00	12029.00	14.00	INT-3	6: Pilot Hole - 2	2B	Slide Drill f/12015.00 t/12029.00, TF G, w/WOB 25.00,Flow 375.00, Press 3000.00, Tq 12000.00, ROP 11.20, Diff 750.00
01/20/2023	07:10	09:15	2.08	12029.00	12029.00	0.00	INT-3	6: Pilot Hole - 2	3B	Work stuck pipe
01/20/2023	09:15	14:20	5.08	12029.00	12029.00	0.00	INT-3	6: Pilot Hole - 2	5A	Weight up system to 12#
01/20/2023	14:20	15:55	1.58	12029.00	12113.00	84.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/12029.00 t/12113.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 53.05, Diff 750.00
01/20/2023	15:55	17:00	1.08	12113.00	12130.00	17.00	INT-3	6: Pilot Hole - 2	2B	Slide Drill f/12113.00 t/12130.00, TF G, w/WOB 25.00,Flow 375.00, Press 3000.00, Tq 12000.00, ROP 15.69, Diff 750.00
01/20/2023	17:00	18:05	1.08	12130.00	12196.00	66.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/12130.00 t/12196.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 60.92, Diff 750.00
01/20/2023	18:05	18:30	0.42	12196.00	12196.00	0.00	INT-3	6: Pilot Hole - 2	8P	Rig Service
01/20/2023	18:30	18:35	0.08	12196.00	12196.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/20/2023	18:35	20:25	1.83	12196.00	12290.00	94.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/12196.00 t/12290.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 51.27, Diff 750.00
01/20/2023	20:25	20:30	0.08	12290.00	12290.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/20/2023	20:30	22:50	2.33	12290.00	12385.00	95.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/12290.00 t/12385.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 40.71, Diff 750.00
01/20/2023	22:50	22:55	0.08	12385.00	12385.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/20/2023	22:55	24:00	1.08	12385.00	12434.00	49.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/12385.00 t/12434.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 45.23, Diff 750.00

Daily Drilling Report 01/21/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	17	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/21/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Drilling away in vertical portion of well. ROP continued to slow down to 30 - 50 ft/hr. We were seeing occasional differential spikes. Talks here very from grabbing something hard, or hole sluffing in. We have been stuck before for a few hours, so we are unable to truely confirm. ROP continued to be slow, so the call was made to pull out of the hole to swap bit and motor. Pulled out of the hole, swapped bit and motor, ran back in.

24Hr Lookahead

Tagged bottom and will continue to drill ahead in the vertical section. Should have about 12 hours of drilling ahead of us. Should be reaching TD around 2-3pm on the 22nd.

Drilling Summary	24Hr (BHA 7)	Run (BHA 7)	Casing Data		Fluids			
Start Depth (Usft)	12434.00	12667.00	Csg Shoe MD(Usft)		600	57.00	%Sand	0.05
End Depth (Usft)	12667.00	12667.00	OD (in)		300	34.00	%Solids	13.00
Total Drilled (Usft)			Weight (lb/ft)		200	25.00	Weight (ppg)	12.30
Slide Drilled (Usft)			Bit Data		100	18.00	Fluid Loss	7.00
Rotary Drilled (Usft)			SN	A296116	6	5.00	PH	9.50
Drlg/Circ Hrs		0.00 / 1.00	Bit #	6	3	4.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)	6.750	10s Gel	4.00	Oil/Water	
Rotary Drilling Hrs			TFA	0.933	Temp(F)	90.00		
ROP Rot/Slide (Usft/hr)			Grade In	New	PV	24.00		
BRT Hrs	7.50	7.50	Grade Out	1-2-WT-S-X-I-BT-PR	YP	10.00		
%Slide			Make	Reed Hycalog	Viscosity	46.00		
%Rotary			Model	TKC73-A4	Chlorides	140000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
6.75 Reed TKC73-A4 PDC Drill Bit - 0.93 (3x12, 4x14)	6.750					1.00	1.00
5 - 6/7 8.8 Motor @ 1.75deg FBH	5.000					34.96	35.96
Float Sub for 3.5 IF Float	5.000	2.250				3.14	39.10
Shock Meiser - HF	5.000	2.375				3.55	42.65
5 NMDC	5.063	2.750				31.04	73.69
NMDC	5.000	2.750				31.07	104.76
Steel X/O	5.370	2.690				5.20	109.96
10 STANDS HWDP	5.000	3.000				919.12	1029.08
							1029.08

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP5017	Altitude	AEP	6/7	4.91	1.75	0.68	FBH	8.8

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	28.82	27.86	44.00	341.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00
Run	47.37	27.86	44.00	341.00	607.14	2542.86	2014.29	0.00	200.71	186.43	169.29	8201.60	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/21/2023	00:00	01:10	1.17	12434.00	12479.00	45.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/12434.00 t/12479.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 38.57, Diff 750.00
01/21/2023	01:10	01:15	0.08	12479.00	12479.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/21/2023	01:15	04:30	3.25	12479.00	12574.00	95.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/12479.00 t/12574.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 29.23, Diff 750.00
01/21/2023	04:30	04:35	0.08	12574.00	12574.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/21/2023	04:35	08:15	3.67	12574.00	12667.00	93.00	INT-3	6: Pilot Hole - 2	2A	Rotary Drill f/12574.00 t/12667.00, w/WOB 25.00,Flow 375.00, RPM 50.00, Press 3000.00, Tq 12000.00, ROP 25.36, Diff 750.00
01/21/2023	08:15	08:20	0.08	12667.00	12667.00	0.00	INT-3	6: Pilot Hole - 2	5A	Survey & Connection
01/21/2023	08:20	09:05	0.75	12667.00	12667.00	0.00	INT-3	6: Pilot Hole - 2	5A	circulate btms up
01/21/2023	09:05	09:45	0.67	12667.00	12667.00	0.00	INT-3	6: Pilot Hole - 2	6B	pooh
01/21/2023	09:45	10:20	0.58	12667.00	12667.00	0.00	INT-3	6: Pilot Hole - 2	3B	work stuck pipe
01/21/2023	10:20	15:15	4.92	12667.00	12667.00	0.00	INT-3	6: Pilot Hole - 2	6B	pooh
01/21/2023	15:15	16:00	0.75	12667.00	12667.00	0.00	INT-3	6: Pilot Hole - 2	6P	ld bit, motor, ubho
01/21/2023	16:00	16:30	0.50	12667.00	12667.00	0.00	INT-3	7: Pilot Hole - 3	6O	pu new bit, motor, ubho
01/21/2023	16:30	23:00	6.50	12667.00	12667.00	0.00	INT-3	7: Pilot Hole - 3	6A	TIH
01/21/2023	23:00	24:00	1.00	12667.00	12667.00	0.00	INT-3	7: Pilot Hole - 3	5A	Wash to bottom

Daily Drilling Report 01/22/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	18	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/22/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Kept drilling down to logging point. At about 12850 feet we started encountering a strong Eastward push. We first started off with a small 25 foot slide, then graduated to a 43 foot slide to try and counter this push. No luck. At 13200 feet the company man was notified about how far we were off the line and how much we were going to have to slide to correct it. Calls were made and were basically told to rotate it out as we were 300 feet from logging point. Rotate towards logging point.

24Hr Lookahead

Drilled to TD. Plan now it to circulate with a few sweeps. Wiper to the shoe and back in. Do a second wiper, more sweeps, and finally pull out of the hole for logging.

Drilling Summary	24Hr (BHA 7)	Run (BHA 7)	Casing Data		Fluids			
Start Depth (Usft)	12667.00	12667.00	Csg Shoe MD(Usft)		600	52.00	%Sand	
End Depth (Usft)	13491.00	13491.00	OD (in)		300	32.00	%Solids	13.50
Total Drilled (Usft)	824	824	Weight (lb/ft)		200	20.00	Weight (ppg)	12.30
Slide Drilled (Usft)		68	Bit Data		100	14.00	Fluid Loss	
Rotary Drilled (Usft)	824	756	SN	A294937	6	5.00	PH	9.50
Drlg/Circ Hrs	21.42 / 2.00	21.42 / 3.00	Bit #	7	3	4.00	Mud Type	WBM
Slide Drilling Hrs		5.83	OD (in)	6.750	10s Gel	5.00	Oil/Water	
Rotary Drilling Hrs	21.42	15.58	TFA	0.933	Temp(F)	96.00		
ROP Rot/Slide (Usft/hr)	38.47 / 0.00	48.51 / 11.66	Grade In	New	PV	20.00		
BRT Hrs	24.00	31.50	Grade Out	1-1-WT-G-X-I-WT-TD	YP	12.00		
%Slide		8.25	Make	Reed Hycalog	Viscosity	46.00		
%Rotary	100.00	91.75	Model	TKC73-A4	Chlorides	132000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
6.75 Reed TKC73-A4 PDC Drill Bit - 0.93 (3x12, 4x14)	6.750					1.00	1.00
5" - 7/8 7.0 Motor @ 1.83 FBH	5.000					34.94	35.94
Float Sub for 3.5 IF Float	5.000	2.250				3.14	39.08
Shock Meiser - HF	4.938	2.313				2.55	41.63
5 NMDC	5.063	2.750				31.04	72.67
NMDC	5.000	2.750				31.07	103.74
Steel X/O	5.370	2.690				5.20	108.94
10 STANDS HWDP	5.000	3.000				919.12	1028.06
							1028.06

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP5070	Altitude		7/8	4.95	1.83	0.49	FBH	7

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	38.47	25.00	45.00	226.00	370.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	38.47	25.00	45.00	226.00	370.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/22/2023	00:00	00:40	0.67	12667.00	12667.00	0.00	INT-3	7: Pilot Hole - 3	5A	Wash to bottom
01/22/2023	00:40	01:20	0.67	12667.00	12667.00	0.00	INT-3	7: Pilot Hole - 3	5A	Relog last 100 feet
01/22/2023	01:20	02:35	1.25	12667.00	12761.00	94.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/12667.00 t/12761.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 75.20, Diff 700.00
01/22/2023	02:35	02:40	0.08	12761.00	12761.00	0.00	INT-3	7: Pilot Hole - 3	5A	Survey & Connection
01/22/2023	02:40	04:00	1.33	12761.00	12856.00	95.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/12761.00 t/12856.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 71.25, Diff 700.00
01/22/2023	04:00	04:05	0.08	12856.00	12856.00	0.00	INT-3	7: Pilot Hole - 3	5A	Survey & Connection
01/22/2023	04:05	05:10	1.08	12856.00	12951.00	95.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/12856.00 t/12951.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 87.69, Diff 700.00
01/22/2023	05:10	05:15	0.08	12951.00	12951.00	0.00	INT-3	7: Pilot Hole - 3	5A	Survey & Connection
01/22/2023	05:15	05:25	0.17	12951.00	12961.00	10.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/12951.00 t/12961.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 60.00, Diff 700.00
01/22/2023	05:25	07:30	2.08	12961.00	12986.00	25.00	INT-3	7: Pilot Hole - 3	2B	Slide Drill f/12961.00 t/12986.00, TF M, w/WOB 25.00,Flow 375.00, Press 3800.00, Tq 10500.00, ROP 12.00, Diff 700.00
01/22/2023	07:30	08:15	0.75	12986.00	13046.00	60.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/12986.00 t/13046.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 80.00, Diff 700.00
01/22/2023	08:15	08:20	0.08	13046.00	13046.00	0.00	INT-3	7: Pilot Hole - 3	5A	Survey & Connection
01/22/2023	08:20	08:35	0.25	13046.00	13060.00	14.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/13046.00 t/13060.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 56.00, Diff 700.00
01/22/2023	08:35	11:50	3.25	13060.00	13092.00	32.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/13060.00 t/13092.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 9.85, Diff 700.00
01/22/2023	11:50	12:45	0.92	13092.00	13140.00	48.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/13092.00 t/13140.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 52.36, Diff 700.00
01/22/2023	12:45	13:20	0.58	13140.00	13140.00	0.00	INT-3	7: Pilot Hole - 3	8P	rig service
01/22/2023	13:20	13:25	0.08	13140.00	13140.00	0.00	INT-3	7: Pilot Hole - 3	5A	Survey & Connection
01/22/2023	13:25	13:50	0.42	13140.00	13155.00	15.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/13140.00 t/13155.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 36.00, Diff 700.00
01/22/2023	13:50	17:35	3.75	13155.00	13198.00	43.00	INT-3	7: Pilot Hole - 3	2B	Slide Drill f/13155.00 t/13198.00, TF M, w/WOB 25.00,Flow 375.00, Press 3800.00, Tq 10500.00, ROP 11.47, Diff 700.00
01/22/2023	17:35	18:15	0.67	13198.00	13234.00	36.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/13198.00 t/13234.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 54.00, Diff 700.00
01/22/2023	18:15	18:20	0.08	13234.00	13234.00	0.00	INT-3	7: Pilot Hole - 3	5A	Survey & Connection
01/22/2023	18:20	19:50	1.50	13234.00	13329.00	95.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/13234.00 t/13329.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 63.33, Diff 700.00
01/22/2023	19:50	19:55	0.08	13329.00	13329.00	0.00	INT-3	7: Pilot Hole - 3	5A	Survey & Connection
01/22/2023	19:55	22:00	2.08	13329.00	13422.00	93.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/13329.00 t/13422.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 44.64, Diff 700.00
01/22/2023	22:00	22:05	0.08	13422.00	13422.00	0.00	INT-3	7: Pilot Hole - 3	5A	Survey & Connection
01/22/2023	22:05	24:00	1.92	13422.00	13491.00	69.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/13422.00 t/13491.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 36.00, Diff 700.00

Daily Drilling Report 01/23/2023

Job #	AEP-PB-230022	**Operator**	Matador Resources
API Job # / AFE #	30-025-50845 / 500002.850.01.001	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Report #	19	**Well**	Uncle Richard State Com 213H
Latitude:	32° 10' 2.761" N	**Longitude**	103° 16' 58.029" W
Rig:	Patterson 256	**County / State**	Lea / New Mexico
Date:	01/23/2023	**Report Time**	00:00-24:00
Daily Cost(USD)		**Well Cost(USD)**	

24Hr Summary

Drilled to a TD of 13511 for logging. We circulated and did our first wiper trip. During the wiper trip the string encountered tight spots. Call was made to pull back to the shoe and weight up. We pulled back to the shoe and circulated and weighted up. Once the mud was at 12.8 ppg, we ran back in and circulated again to condition mud and hole. Once they were happy, they started pulling out of the hole. Calls came in from company man about another BHA. See Lookahead.

24Hr Lookahead

We continued to pull out of the hole and calls were made between shacks. They are unsure if they are geometrically tight, or if it is downhole tight. For this reason they want another BHA consisting of our 2 NMDC, X/O, double float assembly (either 2 float subs or float and 1 in bit sub), and bit. They will run this in for another run and see if the tight spots are still there. Feeling like they are really nervous about logging.

Drilling Summary	24Hr (BHA 7)	Run (BHA 7)	Casing Data		Fluids			
Start Depth (Usft)	13491.00	12667.00	**Csg Shoe MD(Usft)**		**600**	59.00	**%Sand**	0.10
End Depth (Usft)	13511.00	13511.00	**OD (in)**		**300**	33.00	**%Solids**	16.50
Total Drilled (Usft)	20	844	**Weight (lb/ft)**		**200**	24.00	**Weight (ppg)**	12.80
Slide Drilled (Usft)		68	**Bit Data**		**100**	17.00	**Fluid Loss**	2.00
Rotary Drilled (Usft)	20	776	**SN**	A294937	**6**	7.00	**PH**	10.00
Drlg/Circ Hrs	0.58 / 14.50	22.00 / 17.50	**Bit #**	7	**3**	6.00	**Mud Type**	WBM
Slide Drilling Hrs		5.83	**OD (in)**	6.750	**10s Gel**	6.00	**Oil/Water**	
Rotary Drilling Hrs	0.58	16.17	**TFA**	0.933	**Temp(F)**	94.00		
ROP Rot/Slide (Usft/hr)	34.29 / 0.00	48.00 / 11.66	**Grade In**	New	**PV**	23.00		
BRT Hrs	24.00	55.50	**Grade Out**	1-1-WT-G-X-I-WT-TD	**YP**	13.00		
%Slide		8.06	**Make**	Reed Hycalog	**Viscosity**	56.00		
%Rotary	100.00	91.94	**Model**	TKC73-A4	**Chlorides**	127000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
6.75 Reed TKC73-A4 PDC Drill Bit - 0.93 (3x12, 4x14)	6.750					1.00	1.00
5" - 7/8 7.0 Motor @ 1.83 FBH	5.000					34.94	35.94
Float Sub for 3.5 IF Float	5.000	2.250				3.14	39.08
Shock Meiser - HF	4.938	2.313				2.55	41.63
5 NMDC	5.063	2.750				31.04	72.67
NMDC	5.000	2.750				31.07	103.74
Steel X/O	5.370	2.690				5.20	108.94
10 STANDS HWDP	5.000	3.000				919.12	1028.06
							1028.06

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP5070	Altitude		7/8	4.95	1.83	0.49	FBH	7

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	34.29	25.00	45.00	229.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	38.36	25.00	45.00	229.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				**Orifice**		**Plug In Date**	
Driver				**Orifice Type**		**Plug In Time**	
Directional				**Pulse Width**		**Plug Out Date**	
Battery 1				**Data Rate**		**Plug Out Time**	
Battery 2				**EM Power**		**Plug In Hrs Tot**	0.00
Battery 3				**EM Freq**		**Plug In Hrs Day**	0.00
Gamma				**Fin Size (in)**		**Circ Hrs Total**	0.00
Helix				**Non Mag Above/Below**	0.00 / 0.00	**Circ Hours Day**	0.00

Magnetics

Total Field	47469.900	**Declination**	6.300	**Total Correction**	5.741
Dip Angle	59.683	**Grid Convergence**	0.559	**North Ref**	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/23/2023	00:00	00:35	0.58	13491.00	13511.00	20.00	INT-3	7: Pilot Hole - 3	2A	Rotary Drill f/13491.00 t/13511.00, w/WOB 25.00,Flow 375.00, RPM45.00, Press 3800.00, Tq 10500.00, ROP 34.29, Diff 700.00
01/23/2023	00:35	04:15	3.67	13511.00	13511.00	0.00	INT-3	7: Pilot Hole - 3	5A	Circulate and pump sweeps
01/23/2023	04:15	08:00	3.75	13511.00	13511.00	0.00	INT-3	7: Pilot Hole - 3	6F	To the shoe and back
01/23/2023	08:00	09:55	1.92	13511.00	13511.00	0.00	INT-3	7: Pilot Hole - 3	5A	circulate
01/23/2023	09:55	12:00	2.08	13511.00	13511.00	0.00	INT-3	7: Pilot Hole - 3	6F	trip back in to shoe/encountered tight spots
01/23/2023	12:00	15:45	3.75	13511.00	13511.00	0.00	INT-3	7: Pilot Hole - 3	5A	circulate and weight up mud at shoe
01/23/2023	15:45	17:00	1.25	13511.00	13511.00	0.00	INT-3	7: Pilot Hole - 3	6A	Run to bottom
01/23/2023	17:00	22:10	5.17	13511.00	13511.00	0.00	INT-3	7: Pilot Hole - 3	5A	Work string and condition hole and mud
01/23/2023	22:10	24:00	1.83	13511.00	13511.00	0.00	INT-3	7: Pilot Hole - 3	6B	To change BHA and do another wiper trip

Daily Drilling Report 01/24/2023

Job #	AEP-PB-230022	Operator	Matador Resources
API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Report #	20	Well	Uncle Richard State Com 213H
Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
Rig:	Patterson 256	County / State	Lea / New Mexico
Date:	01/24/2023	Report Time	00:00-24:00
Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Finally got tools on the bank. Matador had discusions and concerns about the hole still being tight so the call was made to do another wiper trip with just 2 x NMDC, Float Sub, Bit sub, and a tricone bit. Made that BHA up and ran in the hole for another wiper trip. We received an email from Curtis Vestal, and charged standby time during this wiper run. We will also charge standby time on the 25th until tools are layed out (BHA #8).

24Hr Lookahead

Pulled up to tools and layed down NMDC. Rig rigged up to run logs.

Drilling Summary	24Hr (BHA 7)	Run (BHA 7)	Casing Data		Fluids			
Start Depth (Usft)	13511.00	12667.00	Csg Shoe MD(Usft)		600	61.00	%Sand	0.01
End Depth (Usft)	13511.00	13511.00	OD (in)		300	38.00	%Solids	17.50
Total Drilled (Usft)		844	Weight (lb/ft)		200	27.00	Weight (ppg)	12.80
Slide Drilled (Usft)		68	Bit Data		100	21.00	Fluid Loss	
Rotary Drilled (Usft)		776	SN	A294937	6	6.00	PH	10.00
Drlg/Circ Hrs		22.00 / 17.50	Bit #	7	3	4.00	Mud Type	WBM
Slide Drilling Hrs		5.83	OD (in)	6.750	10s Gel	4.00	Oil/Water	
Rotary Drilling Hrs		16.17	TFA	0.933	Temp(F)	73.00		
ROP Rot/Slide (Usft/hr)		48.00 / 11.66	Grade In	New	PV	23.00		
BRT Hrs	8.25	63.75	Grade Out	1-1-WT-G-X-I-WT-TD	YP	15.00		
%Slide		8.06	Make	Reed Hycalog	Viscosity	55.00		
%Rotary		91.94	Model	TKC73-A4	Chlorides	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Randy Ewasko	Julie Ogden										

BHA

Description	OD (in)	ID (in)	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
6.75 Reed TKC73-A4 PDC Drill Bit - 0.93 (3x12, 4x14)	6.750					1.00	1.00
5" - 7/8 7.0 Motor @ 1.83 FBH	5.000					34.94	35.94
Float Sub for 3.5 IF Float	5.000	2.250				3.14	39.08
Shock Meiser - HF	4.938	2.313				2.55	41.63
5 NMDC	5.063	2.750				31.04	72.67
NMDC	5.000	2.750				31.07	103.74
Steel X/O	5.370	2.690				5.20	108.94
10 STANDS HWDP	5.000	3.000				919.12	1028.06
							1028.06

Motor Details

SN	Make	Model	Lobes	Bit to Bend(Usft)	Bend	Rev Per (gpm)	Housing	Stages
AEP5070	Altitude		7/8	4.95	1.83	0.49	FBH	7

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	25.00	45.00	229.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	38.36	25.00	45.00	229.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/24/2023	00:00	07:45	7.75	13511.00	13511.00	0.00	INT-3	7: Pilot Hole - 3	6B	Pull out of the hole for BHA
01/24/2023	07:45	08:15	0.50	13511.00	13511.00	0.00	INT-3	7: Pilot Hole - 3	6P	lay down motor, bit, ubho
01/24/2023	08:15	08:45	0.50	13511.00	13511.00	0.00	INT-3		24B	pick up bit sub, tri cone, no motor or mwd for clean out run
01/24/2023	08:45	16:00	7.25	13511.00	13511.00	0.00	INT-3		24A	wiper trip
01/24/2023	16:00	18:15	2.25	13511.00	13511.00	0.00	INT-3		5A	Condition mud and hole
01/24/2023	18:15	24:00	5.75	13511.00	13511.00	0.00	INT-3		24A	pooh

Daily Drilling Report 01/25/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	21	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/25/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Finished pulling out of the hole and layed down our NMDC and float sub. Did not charge for down hole insurance as there was no motor or MWD, just 2 NMDC and float sub. Tools were down by 0430, so we did charge 4.5 hours of standby for this. Rig is now preparing to wireline log and then run cement plugs. Should be 3-4 days till we walk back to our other well and begin drilling. Randy is out, Steve is coming in on nights.

Drilling Summary	24Hr ()	Run ()	Casing Data	Fluids			
Start Depth (Usft)	13511.00		Csg Shoe MD(Usft)	600	61.00	%Sand	0.01
End Depth (Usft)	13511.00	13511.00	OD (in)	300	38.00	%Solids	17.50
Total Drilled (Usft)			Weight (lb/ft)	200	27.00	Weight (ppg)	12.80
Slide Drilled (Usft)			Bit Data	100	21.00	Fluid Loss	
Rotary Drilled (Usft)			SN	6	6.00	PH	10.00
Drlg/Circ Hrs		0.00 / 4.33	Bit #	3	4.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)	10s Gel	4.00	Oil/Water	
Rotary Drilling Hrs			TFA	Temp(F)	73.00		
ROP Rot/Slide (Usft/hr)			Grade In	PV	23.00		
BRT Hrs		103.50	Grade Out	YP	15.00		
%Slide			Make	Viscosity	55.00		
%Rotary			Model	Chlorides	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Steve Tacheny	Julie Ogden										

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	25.00	45.00	229.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	38.36	25.00	45.00	229.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/25/2023	00:00	04:00	4.00	13511.00	13511.00	0.00	INT-3		24A	Pull out of hole to lay down BHA #8.
01/25/2023	04:00	04:30	0.50	13511.00	13511.00	0.00	INT-3		24A	Layed down BHA #8 and waited for logging and cement plugs.
01/25/2023	04:30	06:00	1.50	13511.00	13511.00	0.00	INT-3		1B	Rig up wireline
01/25/2023	06:00	24:00	18.00	13511.00	13511.00	0.00	INT-3		11A	Wireline logs

Daily Drilling Report 01/26/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	22	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/26/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Wireline stuck in hole, fish for wireline

Drilling Summary	24Hr ()	Run ()	Casing Data		Fluids			
Start Depth (Usft)	13511.00		Csg Shoe MD(Usft)		600	61.00	%Sand	0.01
End Depth (Usft)	13511.00	13511.00	OD (in)		300	38.00	%Solids	17.50
Total Drilled (Usft)			Weight (lb/ft)		200	27.00	Weight (ppg)	12.80
Slide Drilled (Usft)			Bit Data		100	21.00	Fluid Loss	
Rotary Drilled (Usft)			SN		6	6.00	PH	10.00
Drlg/Circ Hrs		0.00 / 4.33	Bit #		3	4.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)		10s Gel	4.00	Oil/Water	
Rotary Drilling Hrs			TFA		Temp(F)	73.00		
ROP Rot/Slide (Usft/hr)			Grade In		PV	23.00		
BRT Hrs			Grade Out		YP	15.00		
%Slide			Make		Viscosity	55.00		
%Rotary			Model		Chlorides	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Steve Tacheny	Julie Ogden										

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	25.00	45.00	229.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	0.00	25.00	45.00	229.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/26/2023	00:00	24:00	24.00	13511.00	13511.00	0.00	INT-3		24B	Fish for wireline

Daily Drilling Report 01/27/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	23	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/27/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary
Fish for wireline

24Hr Lookahead
Fish for wireline

Drilling Summary	24Hr ()	Run ()	Casing Data	Fluids			
Start Depth (Usft)	13511.00		Csg Shoe MD(Usft)	600	61.00	%Sand	0.01
End Depth (Usft)	13511.00	13511.00	OD (in)	300	38.00	%Solids	17.50
Total Drilled (Usft)			Weight (lb/ft)	200	27.00	Weight (ppg)	12.80
Slide Drilled (Usft)			Bit Data	100	21.00	Fluid Loss	
Rotary Drilled (Usft)			SN	6	6.00	PH	10.00
Drlg/Circ Hrs		0.00 / 4.33	Bit #	3	4.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)	10s Gel	4.00	Oil/Water	
Rotary Drilling Hrs			TFA	Temp(F)	73.00		
ROP Rot/Slide (Usft/hr)			Grade In	PV	23.00		
BRT Hrs			Grade Out	YP	15.00		
%Slide			Make	Viscosity	55.00		
%Rotary			Model	Chlorides	150000.00		

Personnel												
Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Steve Tacheny	Julie Ogden										

Drilling Parameters													
	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data							
Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics					
Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity										
Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/27/2023	00:00	24:00	24.00	13511.00	13511.00	0.00	INT-3		24B	Fish for wireline

Daily Drilling Report 01/28/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	24	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/28/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Fish operations for wireline, Caught fish, POOH, L/D fishing tools, prepare for logging

Drilling Summary	24Hr ()	Run ()	Casing Data		Fluids			
Start Depth (Usft)	13511.00		Csg Shoe MD(Usft)		600	61.00	%Sand	0.01
End Depth (Usft)	13511.00	13511.00	OD (in)		300	38.00	%Solids	17.50
Total Drilled (Usft)			Weight (lb/ft)		200	27.00	Weight (ppg)	12.80
Slide Drilled (Usft)			Bit Data		100	21.00	Fluid Loss	
Rotary Drilled (Usft)			SN		6	6.00	PH	10.00
Drlg/Circ Hrs		0.00 / 4.33	Bit #		3	4.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)		10s Gel	4.00	Oil/Water	
Rotary Drilling Hrs			TFA		Temp(F)	73.00		
ROP Rot/Slide (Usft/hr)			Grade In		PV	23.00		
BRT Hrs			Grade Out		YP	15.00		
%Slide			Make		Viscosity	55.00		
%Rotary			Model		Chlorides	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Steve Tacheny	Julie Ogden										

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/28/2023	00:00	24:00	24.00	13511.00	13511.00	0.00	INT-3		24B	Standby for fishing ops & logging op

Daily Drilling Report 01/29/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	25	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	01/29/2023	Report Time	00:00-24:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Run through bit logging BHA

Drilling Summary	24Hr ()	Run ()	Casing Data		Fluids			
Start Depth (Usft)	13511.00		Csg Shoe MD(Usft)		600	61.00	%Sand	0.01
End Depth (Usft)	13511.00	13511.00	OD (in)		300	38.00	%Solids	17.50
Total Drilled (Usft)			Weight (lb/ft)		200	27.00	Weight (ppg)	12.80
Slide Drilled (Usft)			Bit Data		100	21.00	Fluid Loss	
Rotary Drilled (Usft)			SN		6	6.00	PH	10.00
Drlg/Circ Hrs		0.00 / 4.33	Bit #		3	4.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)		10s Gel	4.00	Oil/Water	
Rotary Drilling Hrs			TFA		Temp(F)	73.00		
ROP Rot/Slide (Usft/hr)			Grade In		PV	23.00		
BRT Hrs			Grade Out		YP	15.00		
%Slide			Make		Viscosity	55.00		
%Rotary			Model		Chlorides	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Steve Tacheny	Julie Ogden										

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/29/2023	00:00	24:00	24.00	13511.00	13511.00	0.00	INT-3		24B	Run through bit logging BHA

Daily Drilling Report 01/30/2023

Job #	AEP-PB-230022	**Operator**	Matador Resources	
API Job # / AFE #	30-025-50845 / 500002.850.01.001	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources	
Report #	26	**Well**	Uncle Richard State Com 213H	
Latitude:	32° 10' 2.761" N	**Longitude**	103° 16' 58.029" W	
Rig:	Patterson 256	**County / State**	Lea / New Mexico	
Date:	01/30/2023	**Report Time**	00:00-24:00	
Daily Cost(USD)		**Well Cost(USD)**		

24Hr Lookahead

Finish wireline operations and prepare for cementing

Drilling Summary	24Hr ()	Run ()	Casing Data	Fluids			
Start Depth (Usft)	13511.00		**Csg Shoe MD(Usft)**	**600**	61.00	**%Sand**	0.01
End Depth (Usft)	13511.00	13511.00	**OD (in)**	**300**	38.00	**%Solids**	17.50
Total Drilled (Usft)			**Weight (lb/ft)**	**200**	27.00	**Weight (ppg)**	12.80
Slide Drilled (Usft)			**Bit Data**	**100**	21.00	**Fluid Loss**	
Rotary Drilled (Usft)			**SN**	**6**	6.00	**PH**	10.00
Drlg/Circ Hrs		0.00 / 4.33	**Bit #**	**3**	4.00	**Mud Type**	WBM
Slide Drilling Hrs			**OD (in)**	**10s Gel**	4.00	**Oil/Water**	
Rotary Drilling Hrs			**TFA**	**Temp(F)**	73.00		
ROP Rot/Slide (Usft/hr)			**Grade In**	**PV**	23.00		
BRT Hrs			**Grade Out**	**YP**	15.00		
%Slide			**Make**	**Viscosity**	55.00		
%Rotary			**Model**	**Chlorides**	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Steve Tacheny	Julie Ogden										

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				**Orifice**		**Plug In Date**	
Driver				**Orifice Type**		**Plug In Time**	
Directional				**Pulse Width**		**Plug Out Date**	
Battery 1				**Data Rate**		**Plug Out Time**	
Battery 2				**EM Power**		**Plug In Hrs Tot**	0.00
Battery 3				**EM Freq**		**Plug In Hrs Day**	0.00
Gamma				**Fin Size (in)**		**Circ Hrs Total**	0.00
Helix				**Non Mag Above/Below**	0.00 / 0.00	**Circ Hours Day**	0.00

Magnetics

Total Field	47469.900	**Declination**	6.300	**Total Correction**	5.741
Dip Angle	59.683	**Grid Convergence**	0.559	**North Ref**	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/30/2023	00:00	24:00	24.00	13511.00	13511.00	0.00	INT-3		24B	Wireline logging operations

Daily Drilling Report 01/31/2023

Job #	AEP-PB-230022	Operator	Matador Resources
API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Report #	27	Well	Uncle Richard State Com 213H
Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
Rig:	Patterson 256	County / State	Lea / New Mexico
Date:	01/31/2023	Report Time	00:00-24:00
Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Cement operations

24Hr Lookahead

Continue cement operations

Drilling Summary	24Hr ()	Run ()	Casing Data	Fluids			
Start Depth (Usft)	13511.00		Csg Shoe MD(Usft)	600	61.00	%Sand	0.01
End Depth (Usft)	13511.00	13511.00	OD (in)	300	38.00	%Solids	17.50
Total Drilled (Usft)			Weight (lb/ft)	200	27.00	Weight (ppg)	12.80
Slide Drilled (Usft)			Bit Data	100	21.00	Fluid Loss	
Rotary Drilled (Usft)			SN	6	6.00	PH	10.00
Drlg/Circ Hrs		0.00 / 4.33	Bit #	3	4.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)	10s Gel	4.00	Oil/Water	
Rotary Drilling Hrs			TFA	Temp(F)	73.00		
ROP Rot/Slide (Usft/hr)			Grade In	PV	23.00		
BRT Hrs			Grade Out	YP	15.00		
%Slide			Make	Viscosity	55.00		
%Rotary			Model	Chlorides	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Steve Tacheny	Julie Ogden										

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
01/31/2023	00:00	24:00	24.00	13511.00	13511.00	0.00	INT-3		24B	Cement operations, Continue cement operations

Daily Drilling Report 02/01/2023

Job #	AEP-PB-230022	**Operator**	Matador Resources
API Job # / AFE #	30-025-50845 / 500002.850.01.001	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Report #	28	**Well**	Uncle Richard State Com 213H
Latitude:	32° 10' 2.761" N	**Longitude**	103° 16' 58.029" W
Rig:	Patterson 256	**County / State**	Lea / New Mexico
Date:	02/01/2023	**Report Time**	00:00-24:00
Daily Cost(USD)		**Well Cost(USD)**	

24Hr Summary

Continue cement operations

24Hr Lookahead

Continue cement operations, prepare to skid

Drilling Summary	24Hr ()	Run ()	Casing Data	Fluids			
Start Depth (Usft)	13511.00		**Csg Shoe MD(Usft)**	**600**	61.00	**%Sand**	0.01
End Depth (Usft)	13511.00	13511.00	**OD (in)**	**300**	38.00	**%Solids**	17.50
Total Drilled (Usft)			**Weight (lb/ft)**	**200**	27.00	**Weight (ppg)**	12.80
Slide Drilled (Usft)			**Bit Data**	**100**	21.00	**Fluid Loss**	
Rotary Drilled (Usft)			**SN**	**6**	6.00	**PH**	10.00
Drlg/Circ Hrs		0.00 / 4.33	**Bit #**	**3**	4.00	**Mud Type**	WBM
Slide Drilling Hrs			**OD (in)**	**10s Gel**	4.00	**Oil/Water**	
Rotary Drilling Hrs			**TFA**	**Temp(F)**	73.00		
ROP Rot/Slide (Usft/hr)			**Grade In**	**PV**	23.00		
BRT Hrs			**Grade Out**	**YP**	15.00		
%Slide			**Make**	**Viscosity**	55.00		
%Rotary			**Model**	**Chlorides**	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Steve Tacheny	Julie Ogden										

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				**Orifice**		**Plug In Date**	
Driver				**Orifice Type**		**Plug In Time**	
Directional				**Pulse Width**		**Plug Out Date**	
Battery 1				**Data Rate**		**Plug Out Time**	
Battery 2				**EM Power**		**Plug In Hrs Tot**	0.00
Battery 3				**EM Freq**		**Plug In Hrs Day**	0.00
Gamma				**Fin Size (in)**		**Circ Hrs Total**	0.00
Helix				**Non Mag Above/Below**	0.00 / 0.00	**Circ Hours Day**	0.00

Magnetics

Total Field	47469.900	**Declination**	6.300	**Total Correction**	5.741
Dip Angle	59.683	**Grid Convergence**	0.559	**North Ref**	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
02/01/2023	00:00	24:00	24.00	13511.00	13511.00	0.00	INT-3		24B	Continue cement operations

Daily Drilling Report 02/02/2023

	Job #	AEP-PB-230022	Operator	Matador Resources
	API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Report #	29	Well	Uncle Richard State Com 213H
	Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W
	Rig:	Patterson 256	County / State	Lea / New Mexico
	Date:	02/02/2023	Report Time	00:00-19:00
	Daily Cost(USD)		Well Cost(USD)	

24Hr Summary

Cement ops & packer ops, nipple down, prepare & skid rig

24Hr Lookahead

rig up, nipple up, test bops, prepare & P/U BHA

Drilling Summary	24Hr ()	Run ()	Casing Data		Fluids			
Start Depth (Usft)	13511.00		Csg Shoe MD(Usft)		600	61.00	%Sand	0.01
End Depth (Usft)	13511.00	13511.00	OD (in)		300	38.00	%Solids	17.50
Total Drilled (Usft)			Weight (lb/ft)		200	27.00	Weight (ppg)	12.80
Slide Drilled (Usft)			Bit Data		100	21.00	Fluid Loss	
Rotary Drilled (Usft)			SN		6	6.00	PH	10.00
Drlg/Circ Hrs		0.00 / 4.33	Bit #		3	4.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)		10s Gel	4.00	Oil/Water	
Rotary Drilling Hrs			TFA		Temp(F)	73.00		
ROP Rot/Slide (Usft/hr)			Grade In		PV	23.00		
BRT Hrs			Grade Out		YP	15.00		
%Slide			Make		Viscosity	55.00		
%Rotary			Model		Chlorides	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Steve Tacheny	Julie Ogden										

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
02/02/2023	00:00	19:00	19.00	13511.00	13511.00	0.00	INT-3		24B	Cement ops & packer ops, nipple down, prepare & skid rig

Daily Drilling Report 02/14/2023

Job #	AEP-PB-230022	Operator	Matador Resources	
API Job # / AFE #	30-025-50845 / 500002.850.01.001	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources	
Report #	30	Well	Uncle Richard State Com 213H	
Latitude:	32° 10' 2.761" N	Longitude	103° 16' 58.029" W	
Rig:	Patterson 256	County / State	Lea / New Mexico	
Date:	02/14/2023	Report Time	00:00-24:00	
Daily Cost(USD)		Well Cost(USD)		

Drilling Summary	24Hr ()	Run ()	Casing Data	Fluids			
Start Depth (Usft)	13511.00		Csg Shoe MD(Usft)	600	61.00	%Sand	0.01
End Depth (Usft)	13511.00	13511.00	OD (in)	300	38.00	%Solids	17.50
Total Drilled (Usft)			Weight (lb/ft)	200	27.00	Weight (ppg)	12.80
Slide Drilled (Usft)			Bit Data	100	21.00	Fluid Loss	
Rotary Drilled (Usft)			SN	6	6.00	PH	10.00
Drlg/Circ Hrs		0.00 / 4.33	Bit #	3	4.00	Mud Type	WBM
Slide Drilling Hrs			OD (in)	10s Gel	4.00	Oil/Water	
Rotary Drilling Hrs			TFA	Temp(F)	73.00		
ROP Rot/Slide (Usft/hr)			Grade In	PV	23.00		
BRT Hrs			Grade Out	YP	15.00		
%Slide			Make	Viscosity	55.00		
%Rotary			Model	Chlorides	150000.00		

Personnel

Co Man	DD	MWD	Drilling Engineer	Mud Engineer	Geologist	Tool Pusher	Trainee 1	Trainee 2	RSS Eng. 1	Rss Eng. 2	Third Man	Fourth Man
Terry Warren	Keith Koening	Tyler Hasbrouck	Perry Hawks									
Johnathan Kollar	Steve Tacheny	Julie Ogden										

Drilling Parameters

	ROP (Usft/hr)	WOB (klbs)	RPM	RPM DH	FLOW (gpm)	SPP ON (psi)	SPP OFF (psi)	SPM	PU (klbs)	ROT (klbs)	SO (klbs)	TQ ON (Kftlb)	TQ OFF (Kftlb)
24 Hrs	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00
Run	0.00	25.00	45.00	45.00	375.00	3800.00	3100.00	0.00	260.00	230.00	190.00	10500.00	0.00

MWD Data

Tool	SN	Type	Version	MWD Details		Battery Details	
Pulser				Orifice		Plug In Date	
Driver				Orifice Type		Plug In Time	
Directional				Pulse Width		Plug Out Date	
Battery 1				Data Rate		Plug Out Time	
Battery 2				EM Power		Plug In Hrs Tot	0.00
Battery 3				EM Freq		Plug In Hrs Day	0.00
Gamma				Fin Size (in)		Circ Hrs Total	0.00
Helix				Non Mag Above/Below	0.00 / 0.00	Circ Hours Day	0.00

Magnetics

Total Field	47469.900	Declination	6.300	Total Correction	5.741
Dip Angle	59.683	Grid Convergence	0.559	North Ref	GRID

Daily Activity

Date	From	To	Hrs	Start (Usft)	End (Usft)	CL	Phase	BHA	Code	Description
02/14/2023	00:00	24:00	24.00	13511.00	13511.00	0.00	INT-3		24B	skid over from 14H, NU & test, retrieve bridge plug, dress cement

Section - Seven
Bottom Hole Assembly Reports

BHA 1: Surface BHA #1

	Bottom Hole Assembly	ALTITUDE ENERGY PARTNERS

Job#	AEP-PB-230022	**Rig**	Patterson 256	**BHA Length (Usft)**	1392.78
Operator	Matador Resources	**BHA #**	1	**BHA Weight dry (klbs)**	0.00
Well	Uncle Richard State Com 213H - ST01	**Bit #**	1	**BHA Weight Bouyed (klbs)**	0.00
Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources	**Depth In (Usft)**	120.00	**Wt. Below Jars dry (klbs)**	0.00
Date In	01/05/2023	**Depth Out(Usft)**	1689.00	**Wt. Below Jars Bouyed (klbs)**	0.00
Date Out	01/06/2023	**Drilled(Usft)**	1569.00	**Drilling / Circ Hours**	11.33 / 4.25

Sensor Offsets					
Survey Offset	81.00	Gamma Offset	67.49	Gyro Offset	N/A

	#	SN	Description	OD (in)	ID (in)	FN OD (in)	FN Length (Usft)	Cnx Up	Cnx Dn	Unit Weight (lb/ft)	Comp Weight (klbs)	Total Weight (klbs)	Length (Usft)	Total Length (Usft)
	1	A290782	17.5 Reed TK69-B9 6x15s TFA 1.035	17.500	0.000	0.000	0.00	6.625 REG		0.000	0.00	0.00	1.50	1.50
	2	AEP9002	9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/17 Stab	8.780	0.000	8.780	26.13	6.625 REG	6.625 REG	0.000	0.00	0.00	35.90	37.40
	3	30602505	17 Stabilizer	8.250	3.375	8.250	1.86	6.625 REG	6.625 REG	0.000	0.00	0.00	5.93	43.33
	4	910012	8 Cushion Sub	7.960	2.875	7.960	2.16	6.625 REG	6.625 REG	0.000	0.00	0.00	13.24	56.57
	5	GT8005-223	UBHO Sub	8.000	3.500	8.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	3.01	59.58
	6	5049217	8 NMDC - Tool Carrier	7.940	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	30.30	89.88
	7	SD56417	8 NMDC	8.060	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	28.54	118.42
	8		8 Drill Collars 1 stand (3 joints)	8.000	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	87.96	206.38
	9		XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875	0.000	0.00	4.5 XH	6.625 REG	0.000	0.00	0.00	3.23	209.61
	10		6.5 Drill Collars 3 stands (9 joints)	6.500	3.000	0.000	0.00	4.5 XH	4.5 XH	0.000	0.00	0.00	260.40	470.01
	11		XO 4 1/2 XH pin to CET 43 Box	6.563	2.625	0.000	0.00	CET43	4.5XH	0.000	0.00	0.00	3.65	473.66
	12		10 stands (30 joints) HWDP	4.500	3.000	0.000	0.00	CET43	CET43	0.000	0.00	0.00	919.12	1392.78

Bit Data		**Motor Data**	
SN	A290782	**SN**	AEP9002
Size (in)	17.500	**OD (in)**	8.780
Type	PDC	**Description**	9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/17 Stab
Description	17.5 Reed TK69-B9 6x15s TFA 1.035	**Make/Model**	Altitude / AEP
Make	Reed Hycalog	**Bit to Bend (Usft) / Angle**	8.43 / 1.75
Model	TK69-B8	**Stab / Kick Pad OD (in)**	17.000 / 10.600
TFA	1.03 (6x15)	**Stator Vendor/Type/Fit**	AEP / DD XP / 0.0110
Grade In	0-1-CT-G-X-I-WT-TD	**Pre Run Dyno HP%**	
Grade Out	1-3-CT-S-X-I-BT-TD	**Lobes**	7/8
Drilled (Usft)	1569.000	**Stages**	7.0
		Rev/Gal	0.180
		Diff Press (Avg/Max))(psi)	0.0 / 2062.0
		Press. Drop(psi)	0.0
		Max Torque(Kftlb)	28408.0
		Max RPM	135
		Flow Range(gpm)	400-900
		Re-Run	NO
		Direct Bill	NO

MWD Data							
MWD Type		Pulser SN		Gamma SN		Plug In Date	
Orifice		Driver SN		EM SN		Plug In Time	
Orifice Type		Dir. Module SN		Pulse Width	0.00	Plug Out Date	
Poppet		Battery 1 SN		Data Rate	0.00	Plug Out Time	
Make		Battery 2 SN		EM Power	0.00	Plug In Hrs	0.00
Model		Battery 3 SN		EM Freq	0.000		
Fin Size (in)	0.000	Helix SN		Retrievable			

Stabilizer Data						
Component Number	Description	OD (in)	Blade Length (in)	Blade Width (in)	Blade Count	Stab->Bit (Usft)
2	9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/17 Stab	17.000	6.00	2.50	5	4.20
3	17 Stabilizer	17.000	2.62	2.25	4	40.15

BHA 2: BHA 2 Start of Nudge

Bottom Hole Assembly

ALTITUDE ENERGY PARTNERS

Job#	AEP-PB-230022	**Rig**	Patterson 256	**BHA Length (Usft)**	1390.50
Operator	Matador Resources	**BHA #**	2	**BHA Weight dry (klbs)**	0.00
Well	Uncle Richard State Com 213H - ST01	**Bit #**	2	**BHA Weight Bouyed (klbs)**	0.00
Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources	**Depth In (Usft)**	1689.00	**Wt. Below Jars dry (klbs)**	0.00
Date In	01/08/2023	**Depth Out(Usft)**	6130.00	**Wt. Below Jars Bouyed (klbs)**	0.00
Date Out	01/10/2023	**Drilled(Usft)**	4441.00	**Drilling / Circ Hours**	48.83 / 8.92

Sensor Offsets					
Survey Offset	77.00	Gamma Offset	64.81	Gyro Offset	N/A

	#	SN	Description	OD (in)	ID (in)	FN OD (in)	FN Length (Usft)	Cnx Up	Cnx Dn	Unit Weight (lb/ft)	Comp Weight (klbs)	Total Weight (klbs)	Length (Usft)	Total Length (Usft)
	1	5334284	12.25 Baker D507VTX PDC	12.250	0.000	0.000	0.00	6.625 REG		0.000	0.00	0.00	1.50	1.50
	2	AEP9002	9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/11.75 SLV Stab (BFF)	8.780	0.000	8.750	1.94	6.625 REG	6.625 REG	0.000	0.00	0.00	35.90	37.40
	3	SD26485	11.75" HS NM 4 Blade Stabilizer (BFF)	8.400	2.970	8.400	1.53	6.625 REG	6.625 REG	0.000	0.00	0.00	3.65	41.05
	4	910012	8 Cushion Sub	7.960	2.875	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	13.24	54.29
	5	GT8005-223	Shock Meiser	8.000	3.500	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	3.01	57.30
	6	5049217	8 NMDC - Tool Carrier	7.940	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	30.30	87.60
	7	SD56417	8 NMDC	8.060	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	28.54	116.14
	8	rig	8 Drill Collars 1 stand (3 joints)	8.000	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	87.96	204.10
	9	rig	XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875	0.000	0.00	4.5 XH	6.625 REG	0.000	0.00	0.00	3.23	207.33
	10	rig	6.5 Drill Collars 3 stands (9 joints)	6.500	3.000	0.000	0.00	4.5 XH	4.5 XH	0.000	0.00	0.00	260.40	467.73
	11	rig 7229	XO 4 1/2 XH pin to CET 43 Box	6.563	2.625	0.000	0.00	CET50	4.5 XH	0.000	0.00	0.00	3.65	471.38
	12	rig	10 stands (30 joints) HWDP	5.000	3.000	0.000	0.00	CET50	CET50	0.000	0.00	0.00	919.12	1390.50

Bit Data		**Motor Data**	
SN	5334284	**SN**	AEP9002
Size (in)	12.250	**OD (in)**	8.780
Type	PDC	**Description**	9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/11.75 SLV Stab (BFF)
Description	12.25 Baker D507VTX PDC	**Make/Model**	Altitude / AEP
Make	Baker Hughes	**Bit to Bend (Usft) / Angle**	8.49 / 1.75
Model	D507VTX	**Stab / Kick Pad OD (in)**	11.750
TFA	1.35 (9x14)	**Stator Vendor/Type/Fit**	
Grade In	New	**Pre Run Dyno HP%**	
Grade Out	1-1-BT-S-X-I-CT-TD	**Lobes**	7/8
Drilled (Usft)	4441.000	**Stages**	7
		Rev/Gal	0.180
		Diff Press (Avg/Max))(psi)	0.0 / 2062.0
		Press. Drop(psi)	0.0
		Max Torque(Kftlb)	28408.0
		Max RPM	0
		Flow Range(gpm)	400-900
		Re-Run	YES
		Direct Bill	NO

MWD Data							
MWD Type		Pulser SN		Gamma SN		Plug In Date	
Orifice		Driver SN		EM SN		Plug In Time	
Orifice Type		Dir. Module SN		Pulse Width	0.00	Plug Out Date	
Poppet		Battery 1 SN		Data Rate	0.00	Plug Out Time	
Make		Battery 2 SN		EM Power	0.00	Plug In Hrs	0.00
Model		Battery 3 SN		EM Freq	0.000		
Fin Size (in)	0.000	Helix SN		Retrievable			

Stabilizer Data						
Component Number	Description	OD (in)	Blade Length (in)	Blade Width (in)	Blade Count	Stab->Bit (Usft)
2	9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/11.75 SLV Stab (BFF)	11.750	0.00	0.00	0	1.50
3	11.75" HS NM4 Blade Stabilizer (BFF)	11.750	7.00	2.00	4	38.42

BHA 3: BHA 3 Nudge to Vertical

	Bottom Hole Assembly	ALTITUDE ENERGY PARTNERS

Job#	AEP-PB-230022	Rig	Patterson 256	BHA Length (Usft)	1379.22
Operator	Matador Resources	BHA #	3	BHA Weight dry (klbs)	0.00
Well	Uncle Richard State Com 213H - ST01	Bit #	3	BHA Weight Bouyed (klbs)	0.00
Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources	Depth In (Usft)	6130.00	Wt. Below Jars dry (klbs)	0.00
Date In	01/12/2023	Depth Out(Usft)	9755.00	Wt. Below Jars Bouyed (klbs)	0.00
Date Out	01/14/2023	Drilled(Usft)	3625.00	Drilling / Circ Hours	43.08 / 6.17

Sensor Offsets					
Survey Offset	67.00	Gamma Offset	53.93	Gyro Offset	N/A

	#	SN	Description	OD (in)	ID (in)	FN OD (in)	FN Length (Usft)	Cnx Up	Cnx Dn	Unit Weight (lb/ft)	Comp Weight (klbs)	Total Weight (klbs)	Length (Usft)	Total Length (Usft)
	1	A295458	9 7/8 Reed TK66-U1 PDC	9.875	0.000	0.000	0.00	6.625 REG		0.000	0.00	0.00	1.50	1.50
	2	AEP8006	8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	8.330	0.000	8.250	1.99	6.625 REG	6.625 REG	0.000	0.00	0.00	34.25	35.75
	3	SD610818	9 3/8 Stabilizer with Float	8.020	3.063	8.020	3.00	6.625 REG	6.625 REG	0.000	0.00	0.00	7.26	43.01
	4	GT8005-223	Shock Meiser	8.000	3.500	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	3.01	46.02
	5	5049217	8 NMDC - Tool Carrier	7.940	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	30.30	76.32
	6	SD56417	8 NMDC	8.060	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	28.54	104.86
	7	rig	8 Drill Collars 1 stand (3 joints)	8.000	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	87.96	192.82
	8	rig	XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875	0.000	0.00	4.5 XH	6.625 REG	0.000	0.00	0.00	3.23	196.05
	9	rig	6.5 Drill Collars 3 stands (9 joints)	6.500	3.000	0.000	0.00	4.5 XH	4.5 XH	0.000	0.00	0.00	260.40	456.45
	10	rig 7229	XO 4 1/2 XH pin to CET 43 Box	6.563	2.625	0.000	0.00	CET43	4.5 XH	0.000	0.00	0.00	3.65	460.10
	11	rig	10 stands (30 joints) HWDP	5.000	3.000	0.000	0.00	CET43	CET43	0.000	0.00	0.00	919.12	1379.22

Comments
A second float was installed in the string stabilizer.

Bit Data		Motor Data	
SN	A295458	SN	AEP8006
Size (in)	9.875	OD (in)	8.330
Type	PDC	Description	8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF
Description	9 7/8 Reed TK66-U1 PDC	Make/Model	Altitude / AEP
Make	Reed Hycalog	Bit to Bend (Usft) / Angle	5.88 / 1.75
Model	TK66-U1	Stab / Kick Pad OD (in)	9.375 / 8.500
TFA	0.90 (6x14)	Stator Vendor/Type/Fit	
Grade In	New	Pre Run Dyno HP%	
Grade Out	2-4-LT-S-X-I-BT-PR	Lobes	7/8
Drilled (Usft)	3625.000	Stages	7
		Rev/Gal	0.180
		Diff Press (Avg/Max))(psi)	0.0 / 2062.0
		Press. Drop(psi)	0.0
		Max Torque(Kftlb)	28408.0
		Max RPM	162
		Flow Range(gpm)	400-900
		Re-Run	NO
		Direct Bill	NO

MWD Data							
MWD Type		Pulser SN		Gamma SN		Plug In Date	
Orifice		Driver SN		EM SN		Plug In Time	
Orifice Type		Dir. Module SN		Pulse Width	0.00	Plug Out Date	
Poppet		Battery 1 SN		Data Rate	0.00	Plug Out Time	
Make		Battery 2 SN		EM Power	0.00	Plug In Hrs	0.00
Model		Battery 3 SN		EM Freq	0.000		
Fin Size (in)	0.000	Helix SN		Retrievable			

Stabilizer Data						
Component Number	Description	OD (in)	Blade Length (in)	Blade Width (in)	Blade Count	Stab->Bit (Usft)
2	8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	9.375	6.00	2.00	5	4.55
3	9 3/8 Stabilizer with Float	9.375	6.00	3.00	4	39.40

BHA 4: Nudge to Vertical

Bottom Hole Assembly

ALTITUDE ENERGY PARTNERS

Job#	AEP-PB-230022	**Rig**	Patterson 256	**BHA Length (Usft)**	1379.37
Operator	Matador Resources	**BHA #**	4	**BHA Weight dry (klbs)**	0.00
Well	Uncle Richard State Com 213H - ST01	**Bit #**	4	**BHA Weight Bouyed (klbs)**	0.00
Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources	**Depth In (Usft)**	9755.00	**Wt. Below Jars dry (klbs)**	0.00
Date In	01/14/2023	**Depth Out(Usft)**	10618.00	**Wt. Below Jars Bouyed (klbs)**	0.00
Date Out	01/15/2023	**Drilled(Usft)**	863.00	**Drilling / Circ Hours**	8.67 / 6.17

Sensor Offsets

Survey Offset	67.00	Gamma Offset	53.93	Gyro Offset	N/A

	#	SN	Description	OD (in)	ID (in)	FN OD (in)	FN Length (Usft)	Cnx Up	Cnx Dn	Unit Weight (lb/ft)	Comp Weight (klbs)	Total Weight (klbs)	Length (Usft)	Total Length (Usft)
	1	5339683	9 7/8 Baker D507VTWX PDC	9.875	0.000	0.000	0.00	6.625 REG		0.000	0.00	0.00	1.50	1.50
	2	AEP8006	8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	8.330	0.000	8.250	1.99	6.625 REG	6.625 REG	0.000	0.00	0.00	34.25	35.75
	3	SD610818	9 3/8 Stabilizer with Float	8.020	3.063	8.020	3.00	6.625 REG	6.625 REG	0.000	0.00	0.00	7.26	43.01
	4	GT800s-117B	Shock Meiser	8.000	3.500	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	3.16	46.17
	5	5049217	8 NMDC - Tool Carrier	7.940	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	30.30	76.47
	6	SD56417	8 NMDC	8.060	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	28.54	105.01
	7	rig	8 Drill Collars 1 stand (3 joints)	8.000	3.750	0.000	0.00	6.625 REG	6.625 REG	0.000	0.00	0.00	87.96	192.97
	8	rig	XO 6 5/8 Reg pin to 4 1/2 XH Box	7.813	2.875	0.000	0.00	4.5 XH	6.625 REG	0.000	0.00	0.00	3.23	196.20
	9	rig	6.5 Drill Collars 3 stands (9 joints)	6.500	3.000	0.000	0.00	4.5 XH	4.5 XH	0.000	0.00	0.00	260.40	456.60
	10	rig 7229	XO 4 1/2 XH pin to CET 43 Box	6.563	2.625	0.000	0.00	CET43	4.5 XH	0.000	0.00	0.00	3.65	460.25
	11	rig	10 stands (30 joints) HWDP	5.000	3.000	0.000	0.00	CET43	CET43	0.000	0.00	0.00	919.12	1379.37

Comments

A second float was installed in the string stabilizer.

Bit Data		Motor Data	
SN	5339683	**SN**	AEP8006
Size (in)	9.875	**OD (in)**	8.330
Type	PDC	**Description**	8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF
Description	9 7/8 Baker D507VTWX PDC	**Make/Model**	Altitude / AEP
Make	Baker Hughes	**Bit to Bend (Usft) / Angle**	5.88 / 1.75
Model	D507VTWX	**Stab / Kick Pad OD (in)**	9.375 / 8.500
TFA	0.90 (6x14)	**Stator Vendor/Type/Fit**	
Grade In	New	**Pre Run Dyno HP%**	
Grade Out	1-1-BT-G-X-I-NO-TD	**Lobes**	7/8
Drilled (Usft)	863.000	**Stages**	7
		Rev/Gal	0.180
		Diff Press (Avg/Max))(psi)	0.0 / 2062.0
		Press. Drop(psi)	0.0
		Max Torque(Kftlb)	28408.0
		Max RPM	162
		Flow Range(gpm)	400-900
		Re-Run	NO
		Direct Bill	NO

MWD Data							
MWD Type		Pulser SN		Gamma SN		Plug In Date	
Orifice		Driver SN		EM SN		Plug In Time	
Orifice Type		Dir. Module SN		Pulse Width	0.00	Plug Out Date	
Poppet		Battery 1 SN		Data Rate	0.00	Plug Out Time	
Make		Battery 2 SN		EM Power	0.00	Plug In Hrs	0.00
Model		Battery 3 SN		EM Freq	0.000		
Fin Size (in)	0.000	Helix SN		Retrievable			

Stabilizer Data						
Component Number	Description	OD (in)	Blade Length (in)	Blade Width (in)	Blade Count	Stab->Bit (Usft)
2	8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	9.375	6.00	2.00	5	4.55
3	9 3/8 Stabilizer with Float	9.375	6.00	3.00	4	39.40

BHA 5: Pilot Hole

	Bottom Hole Assembly	ALTITUDE ENERGY PARTNERS

Job#	AEP-PB-230022	Rig	Patterson 256	BHA Length (Usft)	1028.93
Operator	Matador Resources	BHA #	5	BHA Weight dry (klbs)	0.00
Well	Uncle Richard State Com 213H - ST01	Bit #	5	BHA Weight Bouyed (klbs)	0.00
Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources	Depth In (Usft)	10618.00	Wt. Below Jars dry (klbs)	0.00
Date In	01/18/2023	Depth Out(Usft)	11396.00	Wt. Below Jars Bouyed (klbs)	0.00
Date Out	01/19/2023	Drilled(Usft)	778.00	Drilling / Circ Hours	15.08 / 2.33

Sensor Offsets					
Survey Offset	64.00	Gamma Offset	50.99	Gyro Offset	N/A

	#	SN	Description	OD (in)	ID (in)	FN OD (in)	FN Length (Usft)	Cnx Up	Cnx Dn	Unit Weight (lb/ft)	Comp Weight (klbs)	Total Weight (klbs)	Length (Usft)	Total Length (Usft)
	1	5327714	6.75 Baker DD406VTH PDC Drill Bit	6.750	0.000	0.000	0.00	3.5 Reg		0.000	0.00	0.00	1.00	1.00
	2	AEP5064	5 - 7/8 7.0 Motor @ 1.83deg FBH	5.000	0.000	4.813	1.65	XT39	3.5 Reg	0.000	0.00	0.00	34.54	35.54
	3	AWST-6812	Float Sub for 3.5 IF Float	5.020	2.250	0.000	0.00	XT39	XT39	0.000	0.00	0.00	4.07	39.61
	4	500-194	Shock Meiser - HF	5.000	0.000	0.000	0.00	XT39	XT39	0.000	0.00	0.00	3.56	43.17
	5	56976	MWD NMDC	5.000	2.750	0.000	0.00	XT39	XT39	0.000	0.00	0.00	30.37	73.54
	6	57285	NMDC	5.000	2.750	0.000	0.00	XT39	XT39	0.000	0.00	0.00	31.07	104.61
	7	AWST-7161	Steel X/O	5.370	2.690	5.370	2.67	CET43	XT39	0.000	0.00	0.00	5.20	109.81
	8		10 stands (30 joints) HWDP	5.000	3.000	0.000	0.00			0.000	0.00	0.00	919.12	1028.93

Bit Data		Motor Data	
SN	5327714	SN	AEP5064
Size (in)	6.750	OD (in)	5.000
Type	PDC	Description	5 - 7/8 7.0 Motor @ 1.83deg FBH
Description	6.75 Baker DD406VTH PDC Drill Bit	Make/Model	Altitude / AEP
Make	Baker Hughes	Bit to Bend (Usft) / Angle	4.91 / 1.83
Model	DD406VTH	Stab / Kick Pad OD (in)	
TFA	0.78 (3x9, 3x16)	Stator Vendor/Type/Fit	
Grade In	New	Pre Run Dyno HP%	
Grade Out	1-2-BT-S-X-I-LT-PP	Lobes	7/8
Drilled (Usft)	778.000	Stages	7
		Rev/Gal	0.490
		Diff Press (Avg/Max)(psi)	2000.0 / 1814.0
		Press. Drop(psi)	0.0
		Max Torque(Kftlb)	9783.0
		Max RPM	0
		Flow Range(gpm)	150-400
		Re-Run	NO
		Direct Bill	NO

MWD Data							
MWD Type		Pulser SN		Gamma SN		Plug In Date	
Orifice		Driver SN		EM SN		Plug In Time	
Orifice Type		Dir. Module SN		Pulse Width	0.00	Plug Out Date	
Poppet		Battery 1 SN		Data Rate	0.00	Plug Out Time	
Make		Battery 2 SN		EM Power	0.00	Plug In Hrs	0.00
Model		Battery 3 SN		EM Freq	0.000		
Fin Size (in)	0.000	Helix SN		Retrievable			

BHA 6: Pilot Hole - 2

	Bottom Hole Assembly	ALTITUDE ENERGY PARTNERS

Job#	AEP-PB-230022	**Rig**	Patterson 256	**BHA Length (Usft)**	1029.08
Operator	Matador Resources	**BHA #**	6	**BHA Weight dry (klbs)**	0.00
Well	Uncle Richard State Com 213H - ST01	**Bit #**	6	**BHA Weight Bouyed (klbs)**	0.00
Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources	**Depth In (Usft)**	11396.00	**Wt. Below Jars dry (klbs)**	0.00
Date In	01/19/2023	**Depth Out(Usft)**	12667.00	**Wt. Below Jars Bouyed (klbs)**	0.00
Date Out	01/21/2023	**Drilled(Usft)**	1271.00	**Drilling / Circ Hours**	26.83 / 8.50

Sensor Offsets					
Survey Offset	64.00	Gamma Offset	50.49	Gyro Offset	N/A

	#	SN	Description	OD (in)	ID (in)	FN OD (in)	FN Length (Usft)	Cnx Up	Cnx Dn	Unit Weight (lb/ft)	Comp Weight (klbs)	Total Weight (klbs)	Length (Usft)	Total Length (Usft)
	1	A296116	6.75 Reed TKC73-A4 PDC Drill Bit	6.750	0.000	0.000	0.00	3.5 IF		0.000	0.00	0.00	1.00	1.00
	2	AEP5017	5 - 6/7 8.8 Motor @ 1.75deg FBH	5.000	0.000	5.000	1.79	XT39	3.5 Reg	0.000	0.00	0.00	34.96	35.96
	3	AWST-7139	Float Sub for 3.5 IF Float	5.000	2.250	0.000	0.00	XT39	XT39	0.000	0.00	0.00	3.14	39.10
	4	500-039C	Shock Meiser - HF	5.000	2.375	0.000	0.00	XT39	XT39	0.000	0.00	0.00	3.55	42.65
	5	57323	5 NMDC	5.063	2.750	0.000	0.00	XT39	XT39	0.000	0.00	0.00	31.04	73.69
	6	57285	NMDC	5.000	2.750	0.000	0.00	XT39	XT39	0.000	0.00	0.00	31.07	104.76
	7	AWST-7161	Steel X/O	5.370	2.690	5.370	2.67	CET43	XT39	0.000	0.00	0.00	5.20	109.96
	8	RIG	10 STANDS HWDP	5.000	3.000	0.000	0.00	CET43	CET43	0.000	0.00	0.00	919.12	1029.08

Bit Data		**Motor Data**	
SN	A296116	**SN**	AEP5017
Size (in)	6.750	**OD (in)**	5.000
Type	PDC	**Description**	5 - 6/7 8.8 Motor @ 1.75deg FBH
Description	6.75 Reed TKC73-A4 PDC Drill Bit	**Make/Model**	Altitude / AEP
Make	Reed Hycalog	**Bit to Bend (Usft) / Angle**	4.91 / 1.75
Model	TKC73-A4	**Stab / Kick Pad OD (in)**	
TFA	0.93 (3x12, 4x14)	**Stator Vendor/Type/Fit**	
Grade In	New	**Pre Run Dyno HP%**	
Grade Out	1-2-WT-S-X-I-BT-PR	**Lobes**	6/7
Drilled (Usft)	1271.000	**Stages**	8.8
		Rev/Gal	0.680
		Diff Press (Avg/Max))(psi)	0.0 / 2159.0
		Press. Drop(psi)	0.0
		Max Torque(Kftlb)	7978.0
		Max RPM	0
		Flow Range(gpm)	150-400
		Re-Run	NO
		Direct Bill	NO

MWD Data							
MWD Type		**Pulser SN**		**Gamma SN**		**Plug In Date**	
Orifice		**Driver SN**		**EM SN**		**Plug In Time**	
Orifice Type		**Dir. Module SN**		**Pulse Width**	0.00	**Plug Out Date**	
Poppet		**Battery 1 SN**		**Data Rate**	0.00	**Plug Out Time**	
Make		**Battery 2 SN**		**EM Power**	0.00	**Plug In Hrs**	0.00
Model		**Battery 3 SN**		**EM Freq**	0.000		
Fin Size (in)	0.000	**Helix SN**		**Retrievable**			

BHA 7: Pilot Hole - 3

	Bottom Hole Assembly	ALTITUDE ENERGY PARTNERS

Job#	AEP-PB-230022	**Rig**	Patterson 256	**BHA Length (Usft)**	1028.06
Operator	Matador Resources	**BHA #**	7	**BHA Weight dry (klbs)**	0.00
Well	Uncle Richard State Com 213H - ST01	**Bit #**	7	**BHA Weight Bouyed (klbs)**	0.00
Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources	**Depth In (Usft)**	12667.00	**Wt. Below Jars dry (klbs)**	0.00
Date In	01/21/2023	**Depth Out(Usft)**	13511.00	**Wt. Below Jars Bouyed (klbs)**	0.00
Date Out	01/24/2023	**Drilled(Usft)**	844.00	**Drilling / Circ Hours**	22.00 / 17.50

Sensor Offsets					
Survey Offset	63.00	Gamma Offset	49.65	Gyro Offset	N/A

	#	SN	Description	OD (in)	ID (in)	FN OD (in)	FN Length (Usft)	Cnx Up	Cnx Dn	Unit Weight (lb/ft)	Comp Weight (klbs)	Total Weight (klbs)	Length (Usft)	Total Length (Usft)
	1	A294937	6.75 Reed TKC73-A4 PDC Drill Bit	6.750	0.000	0.000	0.00	3.5 Reg		0.000	0.00	0.00	1.00	1.00
	2	AEP5070	5" - 7/8 7.0 Motor @ 1.83 FBH	5.000	0.000	4.938	1.78	XT39	3.5 Reg	0.000	0.00	0.00	34.94	35.94
	3	AWST-7139	Float Sub for 3.5 IF Float	5.000	2.250	0.000	0.00	XT39	XT39	0.000	0.00	0.00	3.14	39.08
	4	500-076B	Shock Meiser - HF	4.938	2.313	0.000	0.00	XT39	XT39	0.000	0.00	0.00	2.55	41.63
	5	57323	5 NMDC	5.063	2.750	0.000	0.00	XT39	XT39	0.000	0.00	0.00	31.04	72.67
	6	57285	NMDC	5.000	2.750	0.000	0.00	XT39	XT39	0.000	0.00	0.00	31.07	103.74
	7	AWST-7161	Steel X/O	5.370	2.690	5.370	2.67	CET43	XT39	0.000	0.00	0.00	5.20	108.94
	8	RIG	10 STANDS HWDP	5.000	3.000	0.000	0.00	CET43	CET43	0.000	0.00	0.00	919.12	1028.06

Bit Data		Motor Data	
SN	A294937	**SN**	AEP5070
Size (in)	6.750	**OD (in)**	5.000
Type	PDC	**Description**	5" - 7/8 7.0 Motor @ 1.83 FBH
Description	6.75 Reed TKC73-A4 PDC Drill Bit	**Make/Model**	Altitude
Make	Reed Hycalog	**Bit to Bend (Usft) / Angle**	4.95 / 1.83
Model	TKC73-A4	**Stab / Kick Pad OD (in)**	
TFA	0.93 (3x12, 4x14)	**Stator Vendor/Type/Fit**	
Grade In	New	**Pre Run Dyno HP%**	
Grade Out	1-1-WT-G-X-I-WT-TD	**Lobes**	7/8
Drilled (Usft)	844.000	**Stages**	7
		Rev/Gal	0.490
		Diff Press (Avg/Max))(psi)	0.0 / 1814.0
		Press. Drop(psi)	0.0
		Max Torque(Kftlb)	9783.0
		Max RPM	60
		Flow Range(gpm)	150-400
		Re-Run	NO
		Direct Bill	NO

MWD Data							
MWD Type		**Pulser SN**		**Gamma SN**		**Plug In Date**	
Orifice		**Driver SN**		**EM SN**		**Plug In Time**	
Orifice Type		**Dir. Module SN**		**Pulse Width**	0.00	**Plug Out Date**	
Poppet		**Battery 1 SN**		**Data Rate**	0.00	**Plug Out Time**	
Make		**Battery 2 SN**		**EM Power**	0.00	**Plug In Hrs**	0.00
Model		**Battery 3 SN**		**EM Freq**	0.000		
Fin Size (in)	0.000	**Helix SN**		**Retrievable**			

Section - Eight
Performance Reports

Surface BHA #1 - Motor Performance Report

	Job #	AEP-PB-230022	**Operator**	Matador Resources
	API#	30-025-50845	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Latitude	32° 10' 2.761" N	**Well**	Uncle Richard State Com 213H
	Longitude	103° 16' 58.029" W	**State**	New Mexico
	Rig	Patterson 256	**County**	Lea
	Reason POOH	Section TD	**BHA #**	1
	Lead DD	Steve Tacheny	**Company Man**	Terry Warren
	DD Coordinator		**District**	

Motor Performance Report

Run Data		Motor Data		Drilling Parameters	
Date In	01/05/2023 08:00	**SN**	AEP9002	**WOB Rotate (klbs)**	27.75
Date Out	01/06/2023 04:00	**Description**	9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/17 Stab	**WOB Slide (klbs)**	
Depth In(Usft)	120.00	**Make**	Altitude	**RPM Max**	135
Depth Out(Usft)	1689.00	**Model**	AEP	**RPM Avg**	44
Inc In	0.41	**Re-run**	NO	**Flow Rate (gpm)**	562.50
Inc Out	0.52	**Direct Bill**	NO	**Off Btm Press (psi)**	1070.50
Azi In	256.80	**Lobes**	7/8	**On Btm Press (psi)**	1522.50
Azi Out	237.23	**Stages**	7.0	**Avg Diff Press (psi)**	452.00
Total Drilled (Usft)	1569.00	**Bend Angle**	1.75	**Tq On Btm (Kftlb)**	13200.00
%Slide (Ftg)	0.00	**Bit to Bend (Usft)**	8.43	**Tq Off Btm (Kftlb)**	
%Slide (Hrs)	0.00	**Sleeve Stab OD (in)**	17.000	**Temperature (degF)**	1000 / 0 / 0
Slide Drilled (Usft)	0.00	**Bearing Gap (in)**	0.047	**PU WT (klbs)**	87.75
Slide Hours	0.00	**Stab to Bit (Usft)**	2.70	**ROT WT (klbs)**	82.75
%Rotary (Ftg)	100.00	**Kickpad OD (in)**	10.600	**SO WT (klbs)**	77.75
%Rotary (Hrs)	100.00	**Body OD (in)**	8.780	**Bit SN**	A290782
Rotary Drilled (Usft)	1569.00	**Fishneck OD (in)**	8.780	**Bit Type**	PDC
Rotary Hours	11.33	**Length (Usft)**	35.90	**Bit Make**	Reed Hycalog
Total Drlg Hrs	11.33	**Integral Float**	YES	**Bit Model**	TK69-B8
Total D&C Hrs	15.58	**Rev per Gal:**	0.180	**Bit OD (in)**	17.500
Off Btm Circ Hrs	4.25	**#Stalls**		**Bit TFA**	1.03 (6x15)
BRT Hrs	20.00	**Stalls Pressure**		**Bit #**	1
Slide ROP (Usft/hr)	0.00	**Stator Vendor**	AEP	**Bit Grade In**	0-1-CT-G-X-I-WT-TD
Rot ROP (Usft/hr)	138.48	**Stator Type**	DD XP	**Bit Grade Out**	1-3-CT-S-X-I-BT-TD
Avg ROP (Usft/hr)	138.48	**Stator Fit**	0.011	**Drill Hrs**	11.33
		Pre-Run Dyno HP%		**Circ Hrs**	4.25
		Max DiffP (psi)	2062.00		
		Max Torque (Kftlb)	28408.00		
		Flow Range (gpm)	400-900		

Mud Data

600	300	200	100	6	3	PV / YP	Oil/Water	Wt (ppg)	Chlorides	Type	%Solids	%Sand	Temp (degF)
						1 / 3		9.10	400.00	WBM			

Sensor Offsets / Directional Performance

Svy (Usft)	Gam (Usft)	Res (Usft)	PWD (Usft)	Dens (Usft)	Neu (Usft)
81.00	67.49				
Sonic (Usft)	**NB Inc (Usft)**	**NB Azi (Usft)**	**Gyro (Usft)**	**Plan DLS (deg/100Usft)**	**Act/Max DLS (deg/100Usft)**
					0.00 / 0.40

BHA Details

Description	SN	OD (in)	ID (in)	CNX TOP	CNX BTM	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
17.5 Reed TK69-B9 6x15s TFA 1.035 1.03 (6x15)	A290782	17.500		6.625 REG					1.50	1.50
9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/17 Stab	AEP9002	8.780		6.625 REG	6.625 REG				35.90	37.40
17 Stabilizer	30602505	8.250	3.375	6.625 REG	6.625 REG				5.93	43.33
8 Cushion Sub	910012	7.960	2.875	6.625 REG	6.625 REG				13.24	56.57
UBHO Sub	GT8005-223	8.000	3.500	6.625 REG	6.625 REG				3.01	59.58
8 NMDC - Tool Carrier	5049217	7.940	3.750	6.625 REG	6.625 REG				30.30	89.88
8 NMDC	SD56417	8.060	3.750	6.625 REG	6.625 REG				28.54	118.42
8 Drill Collars 1 stand (3 joints)		8.000	3.750	6.625 REG	6.625 REG				87.96	206.38
XO 6 5/8 Reg pin to 4 1/2 XH Box		7.813	2.875	4.5 XH	6.625 REG				3.23	209.61
6.5 Drill Collars 3 stands (9 joints)		6.500	3.000	4.5 XH	4.5 XH				260.40	470.01
XO 4 1/2 XH pin to CET 43 Box		6.563	2.625	CET43	4.5XH				3.65	473.66
10 stands (30 joints) HWDP		4.500	3.000	CET43	CET43				919.12	1392.78
										1392.78

Additional Comments

BHA ran flawlessly. We were able to drill out and drill to TD without having to slide once. There were no issues in the drill down. At surface the motor drained strong and had good flow out from the bearings. BHA was racked in the derrick for the next BHA.

BHA 2 Start of Nudge - Motor Performance Report

Job #	AEP-PB-230022	**Operator**	Matador Resources
API#	30-025-50845	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Latitude	32° 10' 2.761" N	**Well**	Uncle Richard State Com 213H
Longitude	103° 16' 58.029" W	**State**	New Mexico
Rig	Patterson 256	**County**	Lea
Reason POOH	Section TD	**BHA #**	2
Lead DD	Steve Tacheny	**Company Man**	Terry Warren
DD Coordinator		**District**	

Motor Performance Report

Run Data		Motor Data		Drilling Parameters	
Date In	01/08/2023 03:00	**SN**	AEP9002	**WOB Rotate (klbs)**	29.06
Date Out	01/10/2023 22:30	**Description**	9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/11.75 SLV Stab (BFF)	**WOB Slide (klbs)**	28.84
Depth In(Usft)	1689.00	**Make**	Altitude	**RPM Max**	
Depth Out(Usft)	6130.00	**Model**	AEP	**RPM Avg**	53
Inc In	0.52	**Re-run**	YES	**Flow Rate (gpm)**	673.56
Inc Out	4.97	**Direct Bill**	NO	**Off Btm Press (psi)**	2043.68
Azi In	237.22	**Lobes**	7/8	**On Btm Press (psi)**	2718.97
Azi Out	236.68	**Stages**	7	**Avg Diff Press (psi)**	675.29
Total Drilled (Usft)	4441.00	**Bend Angle**	1.75	**Tq On Btm (Kftlb)**	9264.71
%Slide (Ftg)	11.98	**Bit to Bend (Usft)**	8.49	**Tq Off Btm (Kftlb)**	
%Slide (Hrs)	29.86	**Sleeve Stab OD (in)**	11.750	**Temperature (degF)**	1000 / 0 / 0
Slide Drilled (Usft)	532.00	**Bearing Gap (in)**		**PU WT (klbs)**	149.02
Slide Hours	14.58	**Stab to Bit (Usft)**		**ROT WT (klbs)**	139.51
%Rotary (Ftg)	88.02	**Kickpad OD (in)**		**SO WT (klbs)**	130.52
%Rotary (Hrs)	70.14	**Body OD (in)**	8.780	**Bit SN**	5334284
Rotary Drilled (Usft)	3909.00	**Fishneck OD (in)**	8.750	**Bit Type**	PDC
Rotary Hours	34.25	**Length (Usft)**	35.90	**Bit Make**	Baker Hughes
Total Drlg Hrs	48.83	**Integral Float**	YES	**Bit Model**	D507VTX
Total D&C Hrs	57.75	**Rev per Gal:**	0.180	**Bit OD (in)**	12.250
Off Btm Circ Hrs	8.92	**#Stalls**		**Bit TFA**	1.35 (9x14)
BRT Hrs	67.50	**Stalls Pressure**		**Bit #**	2
Slide ROP (Usft/hr)	36.49	**Stator Vendor**		**Bit Grade In**	New
Rot ROP (Usft/hr)	114.13	**Stator Type**		**Bit Grade Out**	1-1-BT-S-X-I-CT-TD
Avg ROP (Usft/hr)	90.95	**Stator Fit**	0.000	**Drill Hrs**	48.83
		Pre-Run Dyno HP%		**Circ Hrs**	8.92
		Max DiffP (psi)	2062.00		
		Max Torque (Kftlb)	28408.00		
		Flow Range (gpm)	400-900		

Mud Data

600	300	200	100	6	3	PV / YP	Oil/Water	Wt (ppg)	Chlorides	Type	%Solids	%Sand	Temp (degF)
						1 / 3		9.10	400.00	WBM			

Sensor Offsets / Directional Performance

Svy (Usft)	Gam (Usft)	Res (Usft)	PWD (Usft)	Dens (Usft)	Neu (Usft)
77.00	64.81				
Sonic (Usft)	**NB Inc (Usft)**	**NB Azi (Usft)**	**Gyro (Usft)**	**Plan DLS (deg/100Usft)**	**Act/Max DLS (deg/100Usft)**
					0.00 / 1.69

BHA Details

Description	SN	OD (in)	ID (in)	CNX TOP	CNX BTM	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
12.25 Baker D507VTX PDC 1.35 (9x14)	5334284	12.250		6.625 REG					1.50	1.50
9 5/8 7/8 7.0 Motor @ 1.75deg Adj w/11.75 SLV Stab (BFF)	AEP9002	8.780		6.625 REG	6.625 REG				35.90	37.40
11.75" HS NM4 Blade Stabilizer (BFF)	SD26485	8.400	2.970	6.625 REG	6.625 REG				3.65	41.05
8 Cushion Sub	910012	7.960	2.875	6.625 REG	6.625 REG				13.24	54.29
Shock Meiser	GT8005-223	8.000	3.500	6.625 REG	6.625 REG				3.01	57.30
8 NMDC - Tool Carrier	5049217	7.940	3.750	6.625 REG	6.625 REG				30.30	87.60
8 NMDC	SD56417	8.060	3.750	6.625 REG	6.625 REG				28.54	116.14
8 Drill Collars 1 stand (3 joints)	rig	8.000	3.750	6.625 REG	6.625 REG				87.96	204.10
XO 6 5/8 Reg pin to 4 1/2 XH Box	rig	7.813	2.875	4.5 XH	6.625 REG				3.23	207.33
6.5 Drill Collars 3 stands (9 joints)	rig	6.500	3.000	4.5 XH	4.5 XH				260.40	467.73
XO 4 1/2 XH pin to CET 43 Box	rig 7229	6.563	2.625	CET50	4.5 XH				3.65	471.38
10 stands (30 joints) HWDP	rig	5.000	3.000	CET50	CET50				919.12	1390.50
										1390.50

Additional Comments

TD Intermediate #1 @ 6130 feet. Circulaed and pulled out of hole for casing. BHA performed quite well during this section. Once we started drilling through the dolomite and beyond, the toolfaces were very hard to control and maintain. Sliding was slow and difficult, had to back off GPM due to losses. On surface, the motor drained strong and very little play in the bearing pack.

BHA 3 Nudge to Vertical - Motor Performance Report

Job #	AEP-PB-230022	**Operator**	Matador Resources
API#	30-025-50845	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Latitude	32° 10' 2.761" N	**Well**	Uncle Richard State Com 213H
Longitude	103° 16' 58.029" W	**State**	New Mexico
Rig	Patterson 256	**County**	Lea
Reason POOH	Bit Trip	**BHA #**	3
Lead DD	Steve Tacheny	**Company Man**	Terry Warren
DD Coordinator		**District**	

Motor Performance Report

Run Data		Motor Data		Drilling Parameters	
Date In	01/12/2023 02:00	**SN**	AEP8006	**WOB Rotate (klbs)**	38.22
Date Out	01/14/2023 16:30	**Description**	8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	**WOB Slide (klbs)**	39.11
Depth In(Usft)	6130.00	**Make**	Altitude	**RPM Max**	162
Depth Out(Usft)	9755.00	**Model**	AEP	**RPM Avg**	55
Inc In	4.97	**Re-run**	NO	**Flow Rate (gpm)**	727.68
Inc Out	0.65	**Direct Bill**	NO	**Off Btm Press (psi)**	2868.97
Azi In	236.68	**Lobes**	7/8	**On Btm Press (psi)**	3615.52
Azi Out	275.51	**Stages**	7	**Avg Diff Press (psi)**	746.55
Total Drilled (Usft)	3625.00	**Bend Angle**	1.75	**Tq On Btm (Kftlb)**	10714.45
%Slide (Rtg)	5.96	**Bit to Bend (Usft)**	5.88	**Tq Off Btm (Kftlb)**	
%Slide (Hrs)	18.57	**Sleeve Stab OD (in)**	9.375	**Temperature (degF)**	1000 / 0 / 0
Slide Drilled (Usft)	216.00	**Bearing Gap (in)**		**PU WT (klbs)**	205.54
Slide Hours	8.00	**Stab to Bit (Usft)**	3.05	**ROT WT (klbs)**	184.55
%Rotary (Rtg)	94.04	**Kickpad OD (in)**	8.500	**SO WT (klbs)**	167.77
%Rotary (Hrs)	81.43	**Body OD (in)**	8.330	**Bit SN**	A295458
Rotary Drilled (Usft)	3409.00	**Fishneck OD (in)**	8.250	**Bit Type**	PDC
Rotary Hours	35.08	**Length (Usft)**	34.25	**Bit Make**	Reed Hycalog
Total Drlg Hrs	43.08	**Integral Float**	YES	**Bit Model**	TK66-U1
Total D&C Hrs	49.25	**Rev per Gal:**	0.180	**Bit OD (in)**	9.875
Off Btm Circ Hrs	6.17	**#Stalls**		**Bit TFA**	0.90 (6x14)
BRT Hrs	62.50	**Stalls Pressure**		**Bit #**	3
Slide ROP (Usft/hr)	27.00	**Stator Vendor**		**Bit Grade In**	New
Rot ROP (Usft/hr)	97.18	**Stator Type**		**Bit Grade Out**	2-4-LT-S-X-I-BT-PR
Avg ROP (Usft/hr)	84.15	**Stator Fit**	0.000	**Drill Hrs**	43.08
		Pre-Run Dyno HP%		**Circ Hrs**	6.17
		Max DiffP (psi)	2062.00		
		Max Torque (Kftlb)	28408.00		
		Flow Range (gpm)	400-900		

Mud Data

600	300	200	100	6	3	PV / YP	Oil/Water	Wt (ppg)	Chlorides	Type	%Solids	%Sand	Temp (degF)
7	5	4	3	1	1	2 / 3		8.90	53000.00	WBM	3.38		

Sensor Offsets / Directional Performance

Svy (Usft)	Gam (Usft)	Res (Usft)	PWD (Usft)	Dens (Usft)	Neu (Usft)
67.00	53.93				
Sonic (Usft)	**NB Inc (Usft)**	**NB Azi (Usft)**	**Gyro (Usft)**	**Plan DLS (deg/100Usft)**	**Act/Max DLS (deg/100Usft)**
					0.00 / 2.48

BHA Details

Description	SN	OD (in)	ID (in)	CNX TOP	CNX BTM	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
9 7/8 Reed TK66-U1 PDC 0.90 (6x14)	A295458	9.875		6.625 REG					1.50	1.50
8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	AEP8006	8.330		6.625 REG	6.625 REG				34.25	35.75
9 3/8 Stabilizer with Float	SD610818	8.020	3.063	6.625 REG	6.625 REG				7.26	43.01
Shock Meiser	GT8005-223	8.000	3.500	6.625 REG	6.625 REG				3.01	46.02
8 NMDC - Tool Carrier	5049217	7.940	3.750	6.625 REG	6.625 REG				30.30	76.32
8 NMDC	SD56417	8.060	3.750	6.625 REG	6.625 REG				28.54	104.86
8 Drill Collars 1 stand (3 joints)	rig	8.000	3.750	6.625 REG	6.625 REG				87.96	192.82
XO 6 5/8 Reg pin to 4 1/2 XH Box	rig	7.813	2.875	4.5 XH	6.625 REG				3.23	196.05
6.5 Drill Collars 3 stands (9 joints)	rig	6.500	3.000	4.5 XH	4.5 XH				260.40	456.45
XO 4 1/2 XH pin to CET 43 Box	rig 7229	6.563	2.625	CET43	4.5 XH				3.65	460.10
10 stands (30 joints) HWDP	rig	5.000	3.000	CET43	CET43				919.12	1379.22
										1379.22

Additional Comments

POOH due to ROP going to below 15 ft hr. On surface bit was damaged on the shoulder and starting to ring out. We changed the bit and ubho on surface and re-ran the motor.

Nudge to Vertical - Motor Performance Report

Job #	AEP-PB-230022	**Operator**	Matador Resources
API#	30-025-50845	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
Latitude	32° 10' 2.761" N	**Well**	Uncle Richard State Com 213H
Longitude	103° 16' 58.029" W	**State**	New Mexico
Rig	Patterson 256	**County**	Lea
Reason POOH	Section TD	**BHA #**	4
Lead DD	Keith Koening	**Company Man**	Terry Warren
DD Coordinator		**District**	

Motor Performance Report

Run Data		Motor Data		Drilling Parameters	
Date In	01/14/2023 17:30	**SN**	AEP8006	**WOB Rotate (klbs)**	35.00
Date Out	01/15/2023 24:00	**Description**	8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	**WOB Slide (klbs)**	
Depth In(Usft)	9755.00	**Make**	Altitude	**RPM Max**	162
Depth Out(Usft)	10618.00	**Model**	AEP	**RPM Avg**	60
Inc In	0.65	**Re-run**	NO	**Flow Rate (gpm)**	750.00
Inc Out	1.13	**Direct Bill**	NO	**Off Btm Press (psi)**	3500.00
Azi In	275.45	**Lobes**	7/8	**On Btm Press (psi)**	4000.00
Azi Out	312.40	**Stages**	7	**Avg Diff Press (psi)**	500.00
Total Drilled (Usft)	863.00	**Bend Angle**	1.75	**Tq On Btm (Kftlb)**	15.00
%Slide (Ftg)	0.00	**Bit to Bend (Usft)**	5.88	**Tq Off Btm (Kftlb)**	
%Slide (Hrs)	0.00	**Sleeve Stab OD (in)**	9.375	**Temperature (degF)**	1000 / 0 / 0
Slide Drilled (Usft)	0.00	**Bearing Gap (in)**		**PU WT (klbs)**	270.00
Slide Hours	0.00	**Stab to Bit (Usft)**	3.05	**ROT WT (klbs)**	255.00
%Rotary (Ftg)	100.00	**Kickpad OD (in)**	8.500	**SO WT (klbs)**	240.00
%Rotary (Hrs)	100.00	**Body OD (in)**	8.330	**Bit SN**	5339683
Rotary Drilled (Usft)	863.00	**Fishneck OD (in)**	8.250	**Bit Type**	PDC
Rotary Hours	8.67	**Length (Usft)**	34.25	**Bit Make**	Baker Hughes
Total Drlg Hrs	8.67	**Integral Float**	YES	**Bit Model**	D507VTWX
Total D&C Hrs	14.83	**Rev per Gal:**	0.180	**Bit OD (in)**	9.875
Off Btm Circ Hrs	6.17	**#Stalls**		**Bit TFA**	0.90 (6x14)
BRT Hrs	30.50	**Stalls Pressure**		**Bit #**	4
Slide ROP (Usft/hr)	0.00	**Stator Vendor**		**Bit Grade In**	New
Rot ROP (Usft/hr)	99.54	**Stator Type**		**Bit Grade Out**	1-1-BT-G-X-I-NO-TD
Avg ROP (Usft/hr)	99.54	**Stator Fit**	0.000	**Drill Hrs**	8.67
		Pre-Run Dyno HP%		**Circ Hrs**	6.17
		Max DiffP (psi)	2062.00		
		Max Torque (Kftlb)	28408.00		
		Flow Range (gpm)	400-900		

Mud Data

600	300	200	100	6	3	PV / YP	Oil/Water	Wt (ppg)	Chlorides	Type	%Solids	%Sand	Temp (degF)
7	5	4	3	1	1	2 / 3		8.90	53000.00	WBM	3.38		

Sensor Offsets / Directional Performance

Svy (Usft)	Gam (Usft)	Res (Usft)	PWD (Usft)	Dens (Usft)	Neu (Usft)
67.00	53.93				
Sonic (Usft)	**NB Inc (Usft)**	**NB Azi (Usft)**	**Gyro (Usft)**	**Plan DLS (deg/100Usft)**	**Act/Max DLS (deg/100Usft)**
					0.00 / 0.70

BHA Details

Description	SN	OD (in)	ID (in)	CNX TOP	CNX BTM	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
9 7/8 Baker D507VTWX PDC 0.90 (6x14)	5339683	9.875		6.625 REG					1.50	1.50
8 3/8 - 7/8 7.0 Motor @ 1.75deg FBH w/ 9 3/8 Stab BFF	AEP8006	8.330		6.625 REG	6.625 REG				34.25	35.75
9 3/8 Stabilizer with Float	SD610818	8.020	3.063	6.625 REG	6.625 REG				7.26	43.01
Shock Meiser	GT800s-117B	8.000	3.500	6.625 REG	6.625 REG				3.16	46.17
8 NMDC - Tool Carrier	5049217	7.940	3.750	6.625 REG	6.625 REG				30.30	76.47
8 NMDC	SD56417	8.060	3.750	6.625 REG	6.625 REG				28.54	105.01
8 Drill Collars 1 stand (3 joints)	rig	8.000	3.750	6.625 REG	6.625 REG				87.96	192.97
XO 6 5/8 Reg pin to 4 1/2 XH Box	rig	7.813	2.875	4.5 XH	6.625 REG				3.23	196.20
6.5 Drill Collars 3 stands (9 joints)	rig	6.500	3.000	4.5 XH	4.5 XH				260.40	456.60
XO 4 1/2 XH pin to CET 43 Box	rig 7229	6.563	2.625	CET43	4.5 XH				3.65	460.25
10 stands (30 joints) HWDP	rig	5.000	3.000	CET43	CET43				919.12	1379.37
										1379.37

Additional Comments

Good 9 7/8 run. Drilled to TD depth to run logs and casing.

Pilot Hole - Motor Performance Report

	Job #	AEP-PB-230022	Operator	Matador Resources
	API#	30-025-50845	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Latitude	32° 10' 2.761" N	Well	Uncle Richard State Com 213H
	Longitude	103° 16' 58.029" W	State	New Mexico
	Rig	Patterson 256	County	Lea
	Reason POOH	Plugged String	BHA #	5
	Lead DD	Keith Koening	Company Man	Terry Warren
	DD Coordinator		District	

Motor Performance Report

Run Data		Motor Data		Drilling Parameters	
Date In	01/18/2023 03:00	SN	AEP5064	WOB Rotate (klbs)	25.47
Date Out	01/19/2023 12:00	Description	5 - 7/8 7.0 Motor @ 1.83deg FBH	WOB Slide (klbs)	27.33
Depth In(Usft)	10618.00	Make	Altitude	RPM Max	
Depth Out(Usft)	11396.00	Model	AEP	RPM Avg	50
Inc In	1.13	Re-run	NO	Flow Rate (gpm)	300.00
Inc Out	1.55	Direct Bill	NO	Off Btm Press (psi)	2400.00
Azi In	312.53	Lobes	7/8	On Btm Press (psi)	3200.00
Azi Out	4.97	Stages	7	Avg Diff Press (psi)	800.00
Total Drilled (Usft)	778.00	Bend Angle	1.83	Tq On Btm (Kftlb)	9.00
%Slide (Ftg)	8.35	Bit to Bend (Usft)	4.91	Tq Off Btm (Kftlb)	
%Slide (Hrs)	25.99	Sleeve Stab OD (in)		Temperature (degF)	1000 / 0 / 0
Slide Drilled (Usft)	65.00	Bearing Gap (in)		PU WT (klbs)	230.00
Slide Hours	3.92	Stab to Bit (Usft)		ROT WT (klbs)	205.00
%Rotary (Ftg)	91.65	Kickpad OD (in)		SO WT (klbs)	190.00
%Rotary (Hrs)	74.01	Body OD (in)	5.000	Bit SN	5327714
Rotary Drilled (Usft)	713.00	Fishneck OD (in)	4.813	Bit Type	PDC
Rotary Hours	11.16	Length (Usft)	34.54	Bit Make	Baker Hughes
Total Drlg Hrs	15.08	Integral Float	YES	Bit Model	DD406VTH
Total D&C Hrs	17.42	Rev per Gal:	0.490	Bit OD (in)	6.750
Off Btm Circ Hrs	2.33	#Stalls	2	Bit TFA	0.78 (3x9, 3x16)
BRT Hrs	33.00	Stalls Pressure	4800.00	Bit #	5
Slide ROP (Usft/hr)	16.58	Stator Vendor		Bit Grade In	New
Rot ROP (Usft/hr)	63.89	Stator Type		Bit Grade Out	1-2-BT-S-X-I-LT-PP
Avg ROP (Usft/hr)	51.59	Stator Fit	0.000	Drill Hrs	15.08
		Pre-Run Dyno HP%		Circ Hrs	2.33
		Max DiffP (psi)	1814.00		
		Max Torque (Kftlb)	9783.00		
		Flow Range (gpm)	150-400		

Mud Data

600	300	200	100	6	3	PV / YP	Oil/Water	Wt (ppg)	Chlorides	Type	%Solids	%Sand	Temp (degF)
7	5	4	3	1	1	2 / 3		8.90	53000.00	WBM	3.38		

Sensor Offsets / Directional Performance

Svy (Usft)	Gam (Usft)	Res (Usft)	PWD (Usft)	Dens (Usft)	Neu (Usft)
64.00	50.99				
Sonic (Usft)	**NB Inc (Usft)**	**NB Azi (Usft)**	**Gyro (Usft)**	**Plan DLS (deg/100Usft)**	**Act/Max DLS (deg/100Usft)**
					0.00 / 1.30

BHA Details

Description	SN	OD (in)	ID (in)	CNX TOP	CNX BTM	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
6.75 Baker DD406VTH PDC Drill Bit 0.78 (3x9, 3x16)	5327714	6.750		3.5 Reg					1.00	1.00
5 - 7/8 7.0 Motor @ 1.83deg FBH	AEP5064	5.000		XT39	3.5 Reg				34.54	35.54
Float Sub for 3.5 IF Float	AWST-6812	5.020	2.250	XT39	XT39				4.07	39.61
Shock Meiser - HF	500-194	5.000		XT39	XT39				3.56	43.17
MWD NMDC	56976	5.000	2.750	XT39	XT39				30.37	73.54
NMDC	57285	5.000	2.750	XT39	XT39				31.07	104.61
Steel X/O	AWST-7161	5.370	2.690	CET43	XT39				5.20	109.81
10 stands (30 joints) HWDP		5.000	3.000						919.12	1028.93
										1028.93

Incident Information

Failed	YES	Hrs to Fail		Tripped For Failure	YES	BHA SN	AEP5064: 5 - 7/8 7.0 Motor @ 1.83deg FBH	MWD SN		EDR Review	NO	Closed	NO	Motor Cat
LIH	NO	NPT		Catastrophic Failure	NO	MOTOR FAIL	NO	MWD FAIL	NO	Surface Fail	NO	MTBF Attrib.	NO	MWD Cat

Operations at Time of Incident

Drilling ahead in pilot hole

Troubleshooting Performed

tried to pump.

Surface Findings

motor drained ok with minimal squat and there were no plugged subs.

Additional Comments

Drilling away in the pilot hole about to drop from 2.5° to vertical. At 11396 and 04:15 AM, the string pressured up to almost 4800 psi. Killed the pumps and pulled off bottom. Tried pumping again and the string would pressure up again. Pull out of the hole to inspect BHA. On surface motor drained ok and didnt have excessive squat. We did find that the BHA was bend around where the monel made up to the ubho or where the ubho made up to the float sub. This would likely explain why the bha wasnt sliding to where our toolfaces were pointed. We changed out all the iron with new, and also PU a new bit and motor. Need to Flag the motor AEP 5064 for the pressure increase, and AWST-6812 (float sub), 500-194 (UBHO), and SD56976 (monel) for the bent drill string.

Pilot Hole - 2 - Motor Performance Report

	Job #	AEP-PB-230022	Operator	Matador Resources
	API#	30-025-50845	Field	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Latitude	32° 10' 2.761" N	Well	Uncle Richard State Com 213H
	Longitude	103° 16' 58.029" W	State	New Mexico
	Rig	Patterson 256	County	Lea
	Reason POOH	ROP	BHA #	6
	Lead DD	Keith Koening	Company Man	Terry Warren
	DD Coordinator		District	

Motor Performance Report

Run Data		Motor Data		Drilling Parameters	
Date In	01/19/2023 13:00	SN	AEP5017	WOB Rotate (klbs)	25.00
Date Out	01/21/2023 16:00	Description	5 - 6/7 8.8 Motor @ 1.75deg FBH	WOB Slide (klbs)	25.00
Depth In(Usft)	11396.00	Make	Altitude	RPM Max	
Depth Out(Usft)	12667.00	Model	AEP	RPM Avg	50
Inc In	0.00	Re-run	NO	Flow Rate (gpm)	375.00
Inc Out	1.55	Direct Bill	NO	Off Btm Press (psi)	2250.00
Azi In	0.00	Lobes	6/7	On Btm Press (psi)	3000.00
Azi Out	4.97	Stages	8.8	Avg Diff Press (psi)	750.00
Total Drilled (Usft)	1271.00	Bend Angle	1.75	Tq On Btm (Kftlb)	12000.00
%Slide (Ftg)	7.16	Bit to Bend (Usft)	4.91	Tq Off Btm (Kftlb)	
%Slide (Hrs)	20.50	Sleeve Stab OD (in)		Temperature (degF)	1000 / 0 / 0
Slide Drilled (Usft)	91.00	Bearing Gap (in)		PU WT (klbs)	250.00
Slide Hours	5.50	Stab to Bit (Usft)		ROT WT (klbs)	225.00
%Rotary (Ftg)	92.84	Kickpad OD (in)		SO WT (klbs)	190.00
%Rotary (Hrs)	79.50	Body OD (in)	5.000	Bit SN	A296116
Rotary Drilled (Usft)	1180.00	Fishneck OD (in)	5.000	Bit Type	PDC
Rotary Hours	21.33	Length (Usft)	34.96	Bit Make	Reed Hycalog
Total Drlg Hrs	26.83	Integral Float	YES	Bit Model	TKC73-A4
Total D&C Hrs	35.33	Rev per Gal:	0.680	Bit OD (in)	6.750
Off Btm Circ Hrs	8.50	#Stalls		Bit TFA	0.93 (3x12, 4x14)
BRT Hrs	51.00	Stalls Pressure		Bit #	6
Slide ROP (Usft/hr)	16.55	Stator Vendor		Bit Grade In	New
Rot ROP (Usft/hr)	55.32	Stator Type		Bit Grade Out	1-2-WT-S-X-I-BT-PR
Avg ROP (Usft/hr)	47.37	Stator Fit	0.000	Drill Hrs	26.83
		Pre-Run Dyno HP%		Circ Hrs	8.50
		Max DiffP (psi)	2159.00		
		Max Torque (Kftlb)	7978.00		
		Flow Range (gpm)	150-400		

Mud Data

600	300	200	100	6	3	PV / YP	Oil/Water	Wt (ppg)	Chlorides	Type	%Solids	%Sand	Temp (degF)
37	24	19	15	5	4	13 / 11		11.00	158500.00	WBM	12.00	0.15	

Sensor Offsets / Directional Performance

Svy (Usft)	Gam (Usft)	Res (Usft)	PWD (Usft)	Dens (Usft)	Neu (Usft)
64.00	50.49				
Sonic (Usft)	**NB Inc (Usft)**	**NB Azi (Usft)**	**Gyro (Usft)**	**Plan DLS (deg/100Usft)**	**Act/Max DLS (deg/100Usft)**

BHA Details

Description	SN	OD (in)	ID (in)	CNX TOP	CNX BTM	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
6.75 Reed TKC73-A4 PDC Drill Bit 0.93 (3x12, 4x14)	A296116	6.750		3.5 IF					1.00	1.00
5 - 6/7 8.8 Motor @ 1.75deg FBH	AEP5017	5.000		XT39	3.5 Reg				34.96	35.96
Float Sub for 3.5 IF Float	AWST-7139	5.000	2.250	XT39	XT39				3.14	39.10
Shock Meiser - HF	500-039C	5.000	2.375	XT39	XT39				3.55	42.65
5 NMDC	57323	5.063	2.750	XT39	XT39				31.04	73.69
NMDC	57285	5.000	2.750	XT39	XT39				31.07	104.76
Steel X/O	AWST-7161	5.370	2.690	CET43	XT39				5.20	109.96
10 STANDS HWDP	RIG	5.000	3.000	CET43	CET43				919.12	1029.08
										1029.08

Additional Comments

POOH due to low ROP. During the run we had gotten packed off at one point and spent hours getting free. We also had several pressure ups that appeared to be the begging stages of packing off because we saw a decrease in string weight associated with them. On surface motor drained good with minimal squat and bit grade was 1-2 with worn teeth on the shoulders and a missing cutter face on the nose.

Pilot Hole - 3 - Motor Performance Report

	Job #	AEP-PB-230022	**Operator**	Matador Resources
	API#	30-025-50845	**Field**	Lea County, NM (NAD 27 NME 3001) - Matador Resources
	Latitude	32° 10' 2.761" N	**Well**	Uncle Richard State Com 213H
	Longitude	103° 16' 58.029" W	**State**	New Mexico
	Rig	Patterson 256	**County**	Lea
	Reason POOH	Section TD	**BHA #**	7
	Lead DD	Keith Koening	**Company Man**	Terry Warren
	DD Coordinator		**District**	

Motor Performance Report

Run Data		Motor Data		Drilling Parameters	
Date In	01/21/2023 16:30	**SN**	AEP5070	**WOB Rotate (klbs)**	25.00
Date Out	01/24/2023 08:15	**Description**	5" - 7/8 7.0 Motor @ 1.83 FBH	**WOB Slide (klbs)**	25.00
Depth In(Usft)	12667.00	**Make**	Altitude	**RPM Max**	60
Depth Out(Usft)	13511.00	**Model**		**RPM Avg**	45
Inc In	0.00	**Re-run**	NO	**Flow Rate (gpm)**	370.31
Inc Out	1.55	**Direct Bill**	NO	**Off Btm Press (psi)**	3100.00
Azi In	0.00	**Lobes**	7/8	**On Btm Press (psi)**	3800.00
Azi Out	4.97	**Stages**	7	**Avg Diff Press (psi)**	700.00
Total Drilled (Usft)	844.00	**Bend Angle**	1.83	**Tq On Btm (Kftlb)**	10500.00
%Slide (Ftg)	8.06	**Bit to Bend (Usft)**	4.95	**Tq Off Btm (Kftlb)**	
%Slide (Hrs)	26.50	**Sleeve Stab OD (in)**		**Temperature (degF)**	1000 / 0 / 0
Slide Drilled (Usft)	68.00	**Bearing Gap (in)**		**PU WT (klbs)**	260.00
Slide Hours	5.83	**Stab to Bit (Usft)**		**ROT WT (klbs)**	230.00
%Rotary (Ftg)	91.94	**Kickpad OD (in)**		**SO WT (klbs)**	190.00
%Rotary (Hrs)	73.50	**Body OD (in)**	5.000	**Bit SN**	A294937
Rotary Drilled (Usft)	776.00	**Fishneck OD (in)**	4.938	**Bit Type**	PDC
Rotary Hours	16.17	**Length (Usft)**	34.94	**Bit Make**	Reed Hycalog
Total Drlg Hrs	22.00	**Integral Float**	YES	**Bit Model**	TKC73-A4
Total D&C Hrs	39.50	**Rev per Gal:**	0.490	**Bit OD (in)**	6.750
Off Btm Circ Hrs	17.50	**#Stalls**		**Bit TFA**	0.93 (3x12, 4x14)
BRT Hrs	63.75	**Stalls Pressure**		**Bit #**	7
Slide ROP (Usft/hr)	11.66	**Stator Vendor**		**Bit Grade In**	New
Rot ROP (Usft/hr)	47.99	**Stator Type**		**Bit Grade Out**	1-1-WT-G-X-I-WT-TD
Avg ROP (Usft/hr)	38.36	**Stator Fit**	0.000	**Drill Hrs**	22.00
		Pre-Run Dyno HP%		**Circ Hrs**	17.50
		Max DiffP (psi)	1814.00		
		Max Torque (Kftlb)	9783.00		
		Flow Range (gpm)	150-400		

Mud Data

600	300	200	100	6	3	PV / YP	Oil/Water	Wt (ppg)	Chlorides	Type	%Solids	%Sand	Temp (degF)
57	34	25	18	5	4	24 / 10		12.30	140000.00	WBM	13.00	0.05	

Sensor Offsets / Directional Performance

Svy (Usft)	Gam (Usft)	Res (Usft)	PWD (Usft)	Dens (Usft)	Neu (Usft)
63.00	49.65				
Sonic (Usft)	**NB Inc (Usft)**	**NB Azi (Usft)**	**Gyro (Usft)**	**Plan DLS (deg/100Usft)**	**Act/Max DLS (deg/100Usft)**

BHA Details

Description	SN	OD (in)	ID (in)	CNX TOP	CNX BTM	TJ OD (in)	TJ ID (in)	Weight (lb/ft)	Length (Usft)	Total Length (Usft)
6.75 Reed TKC73-A4 PDC Drill Bit 0.93 (3x12, 4x14)	A294937	6.750		3.5 Reg					1.00	1.00
5" - 7/8 7.0 Motor @ 1.83 FBH	AEP5070	5.000		XT39	3.5 Reg				34.94	35.94
Float Sub for 3.5 IF Float	AWST-7139	5.000	2.250	XT39	XT39				3.14	39.08
Shock Meiser - HF	500-076B	4.938	2.313	XT39	XT39				2.55	41.63
5 NMDC	57323	5.063	2.750	XT39	XT39				31.04	72.67
NMDC	57285	5.000	2.750	XT39	XT39				31.07	103.74
Steel X/O	AWST-7161	5.370	2.690	CET43	XT39				5.20	108.94
10 STANDS HWDP	RIG	5.000	3.000	CET43	CET43				919.12	1028.06
										1028.06

Additional Comments

Drilled 6 3/4 pilot hole to final depth for client. BHA had a tendency to build and on two occasions built over 2 degrees in rotation. BHA was very difficult to slide and the string would pressure up due to formation. We also had to weight up the mud to a 12.8 due to hole instability. After circulating and making two wiper trips the assembly still had 30k of drag. On surface motor drained OK and bit was graded 1-1. Decision was made to do a wiper drip with dumb iron.

Section - Nine
Slide Sheets

Surface BHA #1 - Slide Sheet

□	Surface BHA #1 - Slide Sheet	ALTITUDE ENERGY PARTNERS

Operator	Matador Resources	BHA	Surface BHA #1	BHA #:	1	RKB:	3293.80	North Reference:	GRID	Total Drilled:	1569.00
Site	Uncle Richard State Com Pad	Survey Offset	81.00	BHA Type:	Motor	Units:	Us Feet	Declination:	6.30	Rotate :	1569.00 (100.00%)
Well Name	Uncle Richard State Com 213H - ST01	Gamma Offset	67.49	Bit Type:	PDC	Grid Conv:	0.56	VS Azimuth:	359.33	Slide:	0.00 (0.00%)

Drilling Data											Survey Data										Parameters									Weights			Comments
Date	Start Time	End Time	Hrs	Start Depth	End Depth	Course Len.	Operation	Tgt TF	TF	MY	MD	INC	AZI	TVD	NS	EW	VS	DLS	UD	LR	WOB	RPM	FLOW	Tq	ROP	SPP On Btm	SPP Off Btm	Diff	Temp	PU	ROT	SO	Comments
01/05/2023	08:00	08:20	0.33	120.00	150.00	30.00	Rotate														5.00	20.00	400.00	8000.00	90.00	600.00	480.00	120.00		65.00	60.00	55.00	
01/05/2023	08:35	08:55	0.33	150.00	213.00	63.00	Rotate				193.00	0.66	256.80	193.00	-0.25	-1.08	-0.24	0.34	0.00	-0.00	5.00	20.00	400.00	8000.00	189.00	600.00	480.00	120.00		65.00	60.00	55.00	
01/05/2023	09:00	09:20	0.33	213.00	274.00	61.00	Rotate				224.00	0.54	253.34	223.99	-0.34	-1.40	-0.32	0.40	0.00	0.00	10.00	20.00	400.00	8000.00	183.00	600.00	480.00	120.00		65.00	60.00	55.00	
01/05/2023	09:25	09:35	0.17	274.00	305.00	31.00	Rotate														25.00	20.00	400.00	8000.00	186.00	600.00	480.00	120.00		65.00	60.00	55.00	
01/05/2023	09:40	10:10	0.50	305.00	395.00	90.00	Rotate				314.00	0.60	260.01	313.99	-0.54	-2.27	-0.51	0.10	-0.00	-0.00	25.00	20.00	400.00	8000.00	180.00	600.00	480.00	120.00		65.00	60.00	55.00	
01/05/2023	10:25	11:00	0.58	395.00	486.00	91.00	Rotate				405.00	0.83	239.82	404.98	-0.95	-3.31	-0.92	0.37	-0.00	-0.00	25.00	20.00	400.00	8000.00	156.00	600.00	480.00	120.00		65.00	60.00	55.00	
01/05/2023	11:10	11:45	0.58	486.00	579.00	93.00	Rotate				576.00	1.08	249.22	575.96	-2.04	-5.94	-1.97	0.14	0.00	-0.00	25.00	20.00	400.00	8000.00	159.43	600.00	480.00	120.00		65.00	60.00	55.00	
01/05/2023	13:35	14:00	0.42	579.00	657.00	78.00	Rotate														30.00	50.00	650.00	16000.00	187.20	1950.00	1250.00	700.00		100.00	95.00	90.00	
01/05/2023	14:10	14:40	0.50	657.00	747.00	90.00	Rotate				666.00	0.87	248.12	665.95	-2.59	-7.37	-2.51	0.23	-0.00	-0.00	30.00	50.00	650.00	16000.00	180.00	1950.00	1250.00	700.00		100.00	95.00	90.00	
01/05/2023	14:50	15:25	0.58	747.00	838.00	91.00	Rotate				757.00	0.66	233.87	756.94	-3.16	-8.43	-3.06	0.31	-0.00	-0.00	30.00	50.00	650.00	16000.00	156.00	1950.00	1250.00	700.00		100.00	95.00	90.00	
01/05/2023	15:30	16:00	0.50	838.00	931.00	93.00	Rotate				850.00	0.59	231.22	849.93	-3.77	-9.24	-3.67	0.08	-0.00	-0.00	30.00	50.00	650.00	16000.00	186.00	1950.00	1250.00	700.00		100.00	95.00	90.00	
01/05/2023	16:05	16:35	0.50	931.00	1023.00	92.00	Rotate				942.00	0.52	221.07	941.93	-4.39	-9.88	-4.27	0.13	0.00	0.00	35.00	60.00	650.00	16000.00	184.00	2050.00	1450.00	600.00		100.00	95.00	90.00	
01/05/2023	16:40	17:15	0.58	1023.00	1115.00	92.00	Rotate				1034.00	0.64	242.93	1033.92	-4.93	-10.61	-4.81	0.27	0.00	-0.00	35.00	60.00	650.00	16000.00	157.71	2050.00	1450.00	600.00		100.00	95.00	90.00	
01/05/2023	17:20	18:05	0.75	1115.00	1207.00	92.00	Rotate				1126.00	0.52	221.26	1125.92	-5.48	-11.35	-5.35	0.27	0.00	0.00	35.00	60.00	650.00	16000.00	122.67	2050.00	1450.00	600.00		100.00	95.00	90.00	
01/05/2023	18:10	19:00	0.83	1207.00	1300.00	93.00	Rotate				1219.00	0.74	232.64	1218.91	-6.16	-12.10	-6.02	0.27	0.00	-0.00	35.00	60.00	650.00	16000.00	111.60	2050.00	1450.00	600.00		100.00	95.00	90.00	
01/05/2023	19:05	19:50	0.75	1300.00	1392.00	92.00	Rotate				1311.00	0.79	227.63	1310.90	-6.95	-13.04	-6.80	0.09	0.00	-0.00	35.00	60.00	650.00	16000.00	122.67	2050.00	1450.00	600.00		100.00	95.00	90.00	
01/05/2023	19:55	20:50	0.92	1392.00	1488.00	96.00	Rotate				1407.00	0.73	225.52	1406.90	-7.83	-13.97	-7.66	0.07	0.00	-0.00	35.00	60.00	650.00	16000.00	104.73	2050.00	1450.00	600.00		100.00	95.00	90.00	
01/05/2023	20:55	21:35	0.67	1488.00	1583.00	95.00	Rotate				1502.00	0.67	222.13	1501.89	-8.66	-14.77	-8.49	0.08	0.00	0.00	35.00	60.00	650.00	16000.00	142.50	2050.00	1450.00	600.00		100.00	95.00	90.00	
01/05/2023	21:40	22:50	1.17	1583.00	1677.00	94.00	Rotate				1608.00	0.64	242.95	1607.88	-9.39	-15.72	-9.21	0.23	0.00	-0.00	35.00	60.00	650.00	16000.00	80.57	2050.00	1450.00	600.00		100.00	95.00	90.00	
01/05/2023	22:55	23:15	0.33	1677.00	1689.00	12.00	Rotate														35.00	60.00	650.00	16000.00	36.00	2050.00	1450.00	600.00		100.00	95.00	90.00	TD Surface @ 1689 feet.

BHA 2 Start of Nudge - Slide Sheet

	BHA 2 Start of Nudge - Slide Sheet	ALTITUDE ENERGY PARTNERS

Operator	Matador Resources	BHA	BHA 2 Start of Nudge	BHA #:	2	RKB:	3293.80	North Reference:	GRID	Total Drilled:	4441.00
Site	Uncle Richard State Com Pad	Survey Offset	77.00	BHA Type:	Motor	Units:	Us Feet	Declination:	6.30	Rotate :	3909.00 (88.02%)
Well Name	Uncle Richard State Com 213H - ST01	Gamma Offset	64.81	Bit Type:	PDC	Grid Conv:	0.56	VS Azimuth:	359.33	Slide:	532.00 (11.98%)

Drilling Data											Survey Data										Parameters									Weights			Comments
Date	Start Time	End Time	Hrs	Start Depth	End Depth	Course Len.	Operation	Tgt TF	TF	MY	MD	INC	AZI	TVD	NS	EW	VS	DLS	UD	LR	WOB	RPM	FLOW	Tq	ROP	SPP On Btm	SPP Off Btm	Diff	Temp	PU	ROT	SO	Comments
01/08/2023	06:55	07:20	0.42	1689.00	1699.00	10.00	Rotate				1693.00	0.51	236.87	1692.88	-9.81	-16.46	-9.62	0.17	0.00	-0.00	25.00	30.00	500.00	7000.00	24.00	1400.00	1100.00	300.00		125.00	123.00	120.00	Dril out
01/08/2023	08:00	08:55	0.92	1699.00	1770.00	71.00	Rotate														25.00	30.00	500.00	7000.00	77.45	1400.00	1100.00	300.00		125.00	123.00	120.00	
01/08/2023	09:00	09:25	0.42	1770.00	1865.00	95.00	Rotate				1788.00	0.32	173.84	1787.88	-10.31	-16.78	-10.11	0.49	0.00	0.00	25.00	30.00	500.00	7000.00	228.00	1400.00	1100.00	300.00		125.00	123.00	120.00	
01/08/2023	09:30	09:35	0.08	1865.00	1875.00	10.00	Rotate														25.00	30.00	500.00	7000.00	120.00	1400.00	1100.00	300.00		125.00	123.00	120.00	
01/08/2023	09:35	09:50	0.25	1875.00	1890.00	15.00	Slide	350.00	0.00		1884.00	0.36	20.23	1883.88	-10.29	-16.65	-10.10	0.69	-0.00	-0.00	25.00		700.00	7000.00	60.00	2350.00	2000.00	350.00		135.00	130.00	125.00	
01/08/2023	09:50	10:25	0.58	1890.00	1961.00	71.00	Rotate														25.00	55.00	700.00	7000.00	121.71	2650.00	2000.00	650.00		135.00	130.00	125.00	
01/08/2023	10:30	11:20	0.83	1961.00	2056.00	95.00	Rotate				1979.00	0.78	0.22	1978.87	-9.37	-16.54	-9.17	0.48	-0.00	-0.00	25.00	55.00	700.00	7000.00	114.00	2650.00	2000.00	650.00		135.00	130.00	125.00	
01/08/2023	11:25	11:55	0.50	2056.00	2151.00	95.00	Rotate				2074.00	0.77	356.40	2073.86	-8.08	-16.58	-7.89	0.06	-0.00	-0.00	25.00	55.00	700.00	7000.00	190.00	2650.00	2000.00	650.00		135.00	130.00	125.00	
01/08/2023	12:00	12:05	0.08	2151.00	2154.00	3.00	Rotate														25.00	55.00	700.00	7000.00	36.00	2650.00	2000.00	650.00		135.00	130.00	125.00	
01/08/2023	12:05	12:20	0.25	2154.00	2169.00	15.00	Slide	200.00	0.00		2169.00	0.35	292.21	2168.86	-7.33	-16.89	-7.14	0.73	0.00	-0.00	25.00		700.00	7000.00	60.00	2650.00	2000.00	650.00		135.00	130.00	125.00	Kick off nudge @ 2169
01/08/2023	12:20	12:45	0.42	2169.00	2246.00	77.00	Rotate														25.00	55.00	700.00	7000.00	184.80	2650.00	2000.00	650.00		135.00	130.00	125.00	
01/08/2023	12:50	12:55	0.08	2246.00	2249.00	3.00	Rotate														25.00	55.00	700.00	7000.00	36.00	2650.00	2000.00	650.00		135.00	130.00	125.00	
01/08/2023	12:55	13:20	0.42	2249.00	2279.00	30.00	Slide	220.00	0.00		2264.00	1.17	232.43	2263.85	-7.82	-17.93	-7.61	1.09	0.00	-0.00	25.00		700.00	7000.00	72.00	2650.00	2000.00	650.00		135.00	130.00	125.00	
01/08/2023	13:20	13:35	0.25	2279.00	2341.00	62.00	Rotate														25.00	55.00	700.00	7000.00	248.00	2650.00	2000.00	650.00		135.00	130.00	125.00	
01/08/2023	13:40	13:45	0.08	2341.00	2344.00	3.00	Rotate														25.00	55.00	700.00	7000.00	36.00	2650.00	2000.00	650.00		135.00	130.00	125.00	
01/08/2023	13:45	14:20	0.58	2344.00	2384.00	40.00	Slide	245.00	0.00		2359.00	2.74	221.35	2358.79	-10.11	-20.20	-9.88	1.69	0.00	0.00	25.00		700.00	7000.00	68.57	2650.00	2000.00	650.00		135.00	130.00	125.00	
01/08/2023	14:20	14:40	0.33	2384.00	2436.00	52.00	Rotate														30.00	55.00	700.00	8000.00	156.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	14:40	15:15	0.58	2436.00	2439.00	3.00	Rotate														30.00	55.00	700.00	8000.00	5.14	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	15:15	15:50	0.58	2439.00	2479.00	40.00	Slide	245.00	0.00		2454.00	4.23	221.27	2453.61	-14.45	-24.01	-14.17	1.57	0.00	0.00	30.00		700.00		68.57	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	15:50	16:10	0.33	2479.00	2531.00	52.00	Rotate														30.00	55.00	700.00	8000.00	156.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	16:15	16:50	0.58	2531.00	2626.00	95.00	Rotate				2549.00	4.90	225.79	2548.31	-19.91	-29.23	-19.57	0.80	0.00	-0.00	30.00	55.00	700.00	8000.00	162.86	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	16:55	17:00	0.08	2626.00	2629.00	3.00	Rotate														30.00	55.00	700.00	8000.00	36.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	17:00	17:35	0.58	2629.00	2669.00	40.00	Slide	270.00	0.00		2644.00	5.05	233.61	2642.95	-25.22	-35.50	-24.81	0.73	0.00	-0.00	30.00		700.00		68.57	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	17:35	17:50	0.25	2669.00	2721.00	52.00	Rotate														30.00	55.00	700.00	8000.00	208.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	17:55	18:15	0.33	2721.00	2815.00	94.00	Rotate				2738.00	5.34	240.20	2736.57	-29.85	-42.63	-29.35	0.71	0.00	-0.00	30.00	55.00	700.00	8000.00	282.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	18:20	18:45	0.42	2815.00	2909.00	94.00	Rotate				2832.00	5.01	240.85	2830.19	-34.02	-50.01	-33.44	0.36	0.00	-0.00	30.00	55.00	700.00	8000.00	225.60	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	18:50	18:55	0.08	2909.00	2919.00	10.00	Rotate														30.00	55.00	700.00	8000.00	120.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	18:55	19:20	0.42	2919.00	2949.00	30.00	Slide	270.00	0.00		2927.00	5.59	243.00	2924.78	-38.15	-57.75	-37.47	0.65	0.00	-0.00	30.00		700.00		72.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	19:20	19:35	0.25	2949.00	3004.00	55.00	Rotate														30.00	55.00	700.00	8000.00	220.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	19:40	19:55	0.25	3004.00	3096.00	92.00	Rotate				3019.00	5.79	248.02	3016.33	-41.92	-66.05	-41.14	0.58	0.00	-0.00	30.00	55.00	700.00	8000.00	368.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	20:00	20:25	0.42	3096.00	3190.00	94.00	Rotate				3113.00	5.34	247.62	3109.88	-45.36	-74.49	-44.48	0.48	0.00	-0.00	30.00	55.00	700.00	8000.00	225.60	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	20:30	20:55	0.42	3190.00	3285.00	95.00	Rotate				3208.00	4.72	244.83	3204.52	-48.70	-82.11	-47.74	0.70	0.00	-0.00	30.00	55.00	700.00	8000.00	228.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	21:00	21:05	0.08	3285.00	3295.00	10.00	Rotate														30.00	55.00	700.00	8000.00	120.00	2850.00	2100.00	750.00		145.00	135.00	125.00	

01/08/2023	21:05	21:55	0.83	3295.00	3335.00	40.00	Slide	260.00	0.00		3301.00	4.56	242.94	3297.21	-52.01	-88.87	-50.97	0.24	0.00	-0.00	30.00		700.00		48.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	21:55	22:05	0.17	3335.00	3378.00	43.00	Rotate														30.00	55.00	700.00	8000.00	258.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	22:10	22:15	0.08	3378.00	3388.00	10.00	Rotate														30.00	55.00	700.00	8000.00	120.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	22:15	23:00	0.75	3388.00	3418.00	30.00	Slide	270.00	0.00		3396.00	5.41	237.84	3391.85	-56.11	-96.02	-54.99	1.01	0.00	-0.00	30.00		700.00		40.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	23:00	23:30	0.50	3418.00	3473.00	55.00	Rotate														30.00	55.00	700.00	8000.00	110.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	23:35	23:40	0.08	3473.00	3490.00	17.00	Rotate				3490.00	5.50	239.48	3485.43	-60.76	-103.66	-59.54	0.19	0.00	-0.00	30.00	55.00	700.00	8000.00	204.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/08/2023	23:40	24:00	0.33	3490.00	3500.00	10.00	Slide	270.00	0.00												30.00		700.00		30.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	00:00	00:30	0.50	3500.00	3525.00	25.00	Slide	270.00	0.00												30.00		700.00		50.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	00:30	00:40	0.17	3525.00	3567.00	42.00	Rotate														30.00	55.00	700.00	8000.00	252.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	00:45	01:25	0.67	3567.00	3661.00	94.00	Rotate				3584.00	6.50	244.57	3578.91	-65.33	-112.34	-64.01	1.20	0.00	-0.00	30.00	55.00	700.00	8000.00	141.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	01:30	02:20	0.83	3661.00	3756.00	95.00	Rotate				3679.00	5.80	242.05	3673.36	-69.89	-121.44	-68.47	0.79	0.00	-0.00	30.00	55.00	700.00	8000.00	114.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	02:25	03:10	0.75	3756.00	3851.00	95.00	Rotate				3774.00	5.19	240.59	3767.93	-74.25	-129.42	-72.73	0.66	0.00	-0.00	30.00	55.00	700.00	8000.00	126.67	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	03:15	03:20	0.08	3851.00	3861.00	10.00	Rotate														30.00	55.00	700.00	8000.00	120.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	03:20	04:25	1.08	3861.00	3901.00	40.00	Slide	270.00	0.00		3869.00	5.70	242.95	3862.50	-78.51	-137.37	-76.90	0.59	0.00	-0.00	28.00		700.00		36.92	2700.00	2400.00	300.00		145.00	135.00	125.00	
01/09/2023	04:25	04:50	0.42	3901.00	3946.00	45.00	Rotate														30.00	55.00	700.00	8000.00	108.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	04:55	05:30	0.58	3946.00	4041.00	95.00	Rotate				3964.00	6.50	247.53	3956.96	-82.71	-146.54	-80.99	0.99	0.00	-0.00	30.00	55.00	700.00	8000.00	162.86	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	05:30	06:15	0.75	4041.00	4135.00	94.00	Rotate				4058.00	6.12	244.98	4050.39	-86.86	-156.00	-85.03	0.50	0.00	-0.00	30.00	55.00	700.00	8000.00	125.33	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	06:20	07:00	0.67	4135.00	4231.00	96.00	Rotate				4154.00	5.94	245.34	4145.86	-91.10	-165.15	-89.16	0.19	0.00	-0.00	30.00	55.00	700.00	8000.00	144.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	07:05	07:10	0.08	4231.00	4233.00	2.00	Rotate														30.00	55.00	700.00	8000.00	24.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	07:10	08:05	0.92	4233.00	4273.00	40.00	Slide	280.00	0.00		4248.00	5.68	243.95	4239.38	-95.17	-173.75	-93.13	0.31	0.00	-0.00	30.00		700.00		43.64	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	08:05	08:25	0.33	4273.00	4325.00	52.00	Rotate														30.00	55.00	700.00	8000.00	156.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	08:30	08:35	0.08	4325.00	4335.00	10.00	Rotate														30.00	55.00	700.00	8000.00	120.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	08:35	09:30	0.92	4335.00	4375.00	40.00	Slide	280.00	0.00		4341.00	5.68	247.32	4331.92	-98.96	-182.13	-96.83	0.36	0.00	-0.00	30.00		700.00		43.64	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	09:30	09:50	0.33	4375.00	4418.00	43.00	Rotate														30.00	55.00	700.00	8000.00	129.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	09:55	10:15	0.33	4418.00	4512.00	94.00	Rotate				4435.00	6.01	248.35	4425.43	-102.57	-190.99	-100.33	0.37	0.00	-0.00	30.00	55.00	700.00	8000.00	282.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	10:20	11:00	0.67	4512.00	4608.00	96.00	Rotate				4531.00	6.03	245.92	4520.90	-106.49	-200.27	-104.14	0.27	0.00	-0.00	30.00	55.00	700.00	8000.00	144.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	11:05	12:05	1.00	4608.00	4702.00	94.00	Rotate				4625.00	6.11	246.60	4614.38	-110.49	-209.37	-108.03	0.11	0.00	-0.00	30.00	55.00	700.00	8000.00	94.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	12:10	13:15	1.08	4702.00	4797.00	95.00	Rotate				4720.00	6.03	246.27	4708.84	-114.50	-218.57	-111.94	0.09	0.00	-0.00	30.00	55.00	700.00	8000.00	87.69	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	13:20	14:30	1.17	4797.00	4891.00	94.00	Rotate				4814.00	5.96	246.63	4802.33	-118.43	-227.57	-115.76	0.08	0.00	-0.00	30.00	55.00	700.00	8000.00	80.57	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	14:35	15:55	1.33	4891.00	4986.00	95.00	Rotate				4909.00	6.01	247.75	4896.81	-122.27	-236.70	-119.49	0.13	0.00	-0.00	30.00	55.00	700.00	8000.00	71.25	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	16:00	17:00	1.00	4986.00	5081.00	95.00	Rotate				5004.00	5.72	249.20	4991.31	-125.83	-245.73	-122.95	0.34	0.00	-0.00	30.00	55.00	700.00	8000.00	95.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	17:05	17:10	0.08	5081.00	5084.00	3.00	Rotate														30.00	55.00	700.00	8000.00	36.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	17:10	19:10	2.00	5084.00	5124.00	40.00	Slide	200.00	0.00		5099.00	5.99	241.09	5085.82	-129.91	-254.50	-126.92	0.92	0.00	-0.00	30.00		700.00		20.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	19:10	19:40	0.50	5124.00	5176.00	52.00	Rotate														30.00	55.00	700.00	12000.00	104.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	19:45	21:00	1.25	5176.00	5271.00	95.00	Rotate				5194.00	6.58	237.57	5180.25	-135.22	-263.43	-132.13	0.74	0.00	-0.00	30.00	55.00	700.00	12000.00	76.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	21:05	22:20	1.25	5271.00	5366.00	95.00	Rotate				5289.00	6.43	236.88	5274.64	-141.05	-272.48	-137.85	0.18	0.00	-0.00	30.00	55.00	700.00	12000.00	76.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	22:25	23:40	1.25	5366.00	5460.00	94.00	Rotate				5383.00	6.28	237.31	5368.06	-146.70	-281.22	-143.40	0.17	0.00	-0.00	30.00	55.00	700.00	12000.00	75.20	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/09/2023	23:45	24:00	0.25	5460.00	5478.00	18.00	Rotate														30.00	55.00	700.00	12000.00	72.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/10/2023	00:00	01:00	1.00	5478.00	5556.00	78.00	Rotate				5479.00	5.93	236.89	5463.51	-152.25	-289.79	-148.85	0.37	0.00	-0.00	30.00	55.00	700.00	12000.00	78.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/10/2023	01:05	01:15	0.17	5556.00	5566.00	10.00	Rotate														30.00	55.00	700.00	12000.00	60.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/10/2023	01:15	02:05	0.83	5566.00	5578.00	12.00	Slide	290.00	0.00		5573.00	5.57	235.99	5557.04	-157.45	-297.64	-153.96	0.39	0.00	-0.00	30.00		700.00		14.40	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/10/2023	02:05	03:15	1.17	5578.00	5650.00	72.00	Rotate														30.00	55.00	700.00	15000.00	61.71	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/10/2023	03:20	04:35	1.25	5650.00	5745.00	95.00	Rotate				5668.00	5.09	235.92	5651.63	-162.39	-304.95	-158.81	0.51	0.00	-0.00	30.00	55.00	700.00	15000.00	76.00	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/10/2023	04:40	05:15	0.58	5745.00	5800.00	55.00	Rotate				5764.00	4.89	234.70	5747.27	-167.14	-311.82	-163.48	0.24	0.00	-0.00	30.00	55.00	700.00	15000.00	94.29	2850.00	2100.00	750.00		145.00	135.00	125.00	
01/10/2023	05:15	06:25	1.17	5800.00	5815.00	15.00	Slide	250.00	0.00												30.00		550.00		12.86	2400.00	2100.00	300.00		200.00	185.00	175.00	
01/10/2023	06:25	06:50	0.42	5815.00	5841.00	26.00	Rotate														30.00	55.00	550.00	15000.00	62.40	2650.00	2100.00	550.00		200.00	185.00	175.00	
01/10/2023	06:55	07:00	0.08	5841.00	5848.00	7.00	Rotate														30.00	55.00	550.00	15000.00	84.00	2650.00	2100.00	550.00		200.00	185.00	175.00	
01/10/2023	07:00	08:00	1.00	5848.00	5863.00	15.00	Slide	245.00	0.00		5858.00	4.86	236.90	5840.93	-171.63	-318.42	-167.89	0.20	0.00	-0.00	30.00		550.00		15.00	2400.00	2100.00	300.00		200.00	185.00	175.00	
01/10/2023	08:00	09:00	1.00	5863.00	5935.00	72.00	Rotate														30.00	55.00	550.00	15000.00	72.00	2650.00	2100.00	550.00		200.00	185.00	175.00	

01/10/2023	09:05	09:10	0.08	5935.00	5940.00	5.00	Rotate													30.00	55.00	550.00	15000.00	60.00	2650.00	2100.00	550.00		200.00	185.00	175.00	
01/10/2023	09:10	10:20	1.17	5940.00	5955.00	15.00	Slide	250.00	0.00		5953.00	5.19	238.22	5935.56	-176.09	-325.45	-172.27	0.37	0.00	-0.00	30.00		550.00		12.86	2400.00	2100.00	300.00		200.00	185.00	175.00	
01/10/2023	10:20	11:10	0.83	5955.00	6030.00	75.00	Rotate														30.00	55.00	550.00	15000.00	90.00	2650.00	2100.00	550.00		200.00	185.00	175.00	
01/10/2023	11:15	12:00	0.75	6030.00	6124.00	94.00	Rotate				6053.00	4.92	235.53	6035.17	-180.90	-332.83	-177.00	0.36	0.00	-0.00	30.00	55.00	550.00	15000.00	125.33	2650.00	2100.00	550.00		200.00	185.00	175.00	
01/10/2023	12:05	12:10	0.08	6124.00	6130.00	6.00	Rotate														30.00	55.00	550.00	15000.00	72.00	2650.00	2100.00	550.00		200.00	185.00	175.00	Section TD

BHA 3 Nudge to Vertical - Slide Sheet

	BHA 3 Nudge to Vertical - Slide Sheet	ALTITUDE ENERGY PARTNERS

Operator	Matador Resources	BHA	BHA 3 Nudge to Vertical	BHA #:	3	RKB:	3293.80	North Reference:	GRID	Total Drilled:	3625.00
Site	Uncle Richard State Com Pad	Survey Offset	67.00	BHA Type:	Motor	Units:	Us Feet	Declination:	6.30	Rotate :	3419.00 (94.32%)
Well Name	Uncle Richard State Com 213H - ST01	Gamma Offset	53.93	Bit Type:	PDC	Grid Conv:	0.56	VS Azimuth:	359.33	Slide:	206.00 (5.68%)

Drilling Data											Survey Data										Parameters									Weights			Comments
Date	Start Time	End Time	Hrs	Start Depth	End Depth	Course Len.	Operation	Tgt TF	TF	MY	MD	INC	AZI	TVD	NS	EW	VS	DLS	UD	LR	WOB	RPM	FLOW	Tq	ROP	SPP On Btm	SPP Off Btm	Diff	Temp	PU	ROT	SO	Comments
01/12/2023	09:25	09:30	0.08	6130.00	6140.00	10.00	Rotate				6139.00	4.98	236.81	6120.85	-185.03	-338.99	-181.05	0.15	0.00	-0.00	5.00	20.00	450.00	8.00	120.00	1300.00	1200.00	100.00		175.00	165.00	165.00	
01/12/2023	11:00	11:25	0.42	6140.00	6206.00	66.00	Rotate														30.00	50.00	600.00	10000.00	158.40	2700.00	2100.00	600.00		205.00	190.00	170.00	
01/12/2023	11:30	11:35	0.08	6206.00	6220.00	14.00	Rotate														30.00	50.00	600.00	10000.00	168.00	2700.00	2100.00	600.00		205.00	190.00	170.00	
01/12/2023	11:35	12:25	0.83	6220.00	6236.00	16.00	Slide	245.00	0.00		6234.00	4.96	236.40	6215.49	-189.56	-345.86	-185.50	0.04	0.00	-0.00	30.00		600.00		19.20	2700.00	2100.00	600.00		205.00	190.00	170.00	
01/12/2023	12:25	12:40	0.25	6236.00	6301.00	65.00	Rotate														30.00	50.00	600.00	10000.00	260.00	2700.00	2100.00	600.00		205.00	190.00	170.00	
01/12/2023	12:45	12:50	0.08	6301.00	6310.00	9.00	Rotate														35.00	50.00	700.00	11000.00	108.00	3300.00	2800.00	500.00		205.00	190.00	170.00	
01/12/2023	12:50	13:50	1.00	6310.00	6345.00	35.00	Slide	270.00	0.00		6329.00	6.61	253.31	6310.01	-193.40	-354.52	-189.24	2.48	0.00	-0.00	35.00		700.00		35.00	3250.00	2800.00	450.00		205.00	190.00	170.00	
01/12/2023	13:50	14:45	0.92	6345.00	6491.00	146.00	Rotate				6424.00	6.85	253.77	6404.36	-196.56	-365.20	-192.27	0.26	0.00	-0.00	35.00	60.00	700.00	11000.00	159.27	3350.00	2800.00	550.00		205.00	190.00	170.00	
01/12/2023	14:50	15:20	0.50	6491.00	6586.00	95.00	Rotate				6519.00	6.56	254.32	6498.71	-199.61	-375.86	-195.20	0.31	0.00	-0.00	35.00	60.00	700.00	11000.00	190.00	3350.00	2800.00	550.00		205.00	190.00	170.00	
01/12/2023	15:25	15:50	0.42	6586.00	6682.00	96.00	Rotate				6615.00	5.97	254.53	6594.14	-202.42	-385.95	-197.89	0.62	0.00	-0.00	35.00	60.00	700.00	11000.00	230.40	3350.00	2800.00	550.00		205.00	190.00	170.00	
01/12/2023	15:55	16:20	0.42	6682.00	6776.00	94.00	Rotate				6709.00	5.56	256.06	6687.66	-204.82	-395.08	-200.19	0.47	0.00	-0.00	35.00	60.00	750.00	11000.00	225.60	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	16:25	16:30	0.08	6776.00	6789.00	13.00	Rotate														35.00	60.00	750.00	11000.00	156.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	16:30	17:10	0.67	6789.00	6829.00	40.00	Slide	235.00	0.00		6804.00	7.19	241.83	6782.08	-208.74	-404.79	-203.99	2.38	0.00	-0.00	35.00		750.00		60.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	17:10	17:30	0.33	6829.00	6871.00	42.00	Rotate														35.00	60.00	750.00	11000.00	126.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	17:45	18:35	0.83	6871.00	6965.00	94.00	Rotate				6898.00	8.23	232.56	6875.23	-215.61	-415.32	-210.73	1.72	0.00	-0.00	35.00	60.00	750.00	11000.00	112.80	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	18:40	19:20	0.67	6965.00	7059.00	94.00	Rotate				6992.00	7.57	229.66	6968.34	-223.70	-425.38	-218.71	0.82	0.00	0.00	35.00	60.00	750.00	11000.00	141.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	19:25	19:30	0.08	7059.00	7070.00	11.00	Rotate														35.00	60.00	750.00	11000.00	132.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	19:30	20:10	0.67	7070.00	7095.00	25.00	Slide	330.00	0.00		7087.00	6.96	246.59	7062.58	-230.04	-435.44	-224.93	2.33	0.00	-0.00	34.00		750.00		37.50	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	20:10	20:30	0.33	7095.00	7154.00	59.00	Rotate														35.00	60.00	750.00	11000.00	177.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	20:35	21:05	0.50	7154.00	7247.00	93.00	Rotate				7180.00	6.67	247.95	7154.93	-234.31	-445.61	-229.08	0.36	0.00	-0.00	35.00	60.00	750.00	11000.00	186.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	21:10	21:35	0.42	7247.00	7341.00	94.00	Rotate				7274.00	6.05	246.18	7248.35	-238.36	-455.20	-233.02	0.69	0.00	-0.00	35.00	60.00	750.00	11000.00	225.60	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	21:40	22:05	0.42	7341.00	7435.00	94.00	Rotate				7368.00	5.30	243.53	7341.89	-242.29	-463.62	-236.86	0.84	0.00	-0.00	35.00	60.00	750.00	11000.00	225.60	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	22:10	22:40	0.50	7435.00	7528.00	93.00	Rotate				7461.00	4.77	242.41	7434.53	-246.00	-470.89	-240.48	0.58	0.00	-0.00	35.00	60.00	750.00	11000.00	186.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	22:45	23:15	0.50	7528.00	7623.00	95.00	Rotate				7556.00	4.17	243.32	7529.24	-249.38	-477.48	-243.78	0.64	0.00	-0.00	35.00	60.00	750.00	11000.00	190.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	23:20	23:45	0.42	7623.00	7717.00	94.00	Rotate				7650.00	3.90	244.34	7623.01	-252.30	-483.42	-246.63	0.30	0.00	-0.00	35.00	60.00	750.00	11000.00	225.60	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/12/2023	23:50	24:00	0.17	7717.00	7733.00	16.00	Rotate														35.00	60.00	750.00	11000.00	96.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	00:00	00:50	0.83	7733.00	7812.00	79.00	Rotate				7745.00	3.15	241.91	7717.82	-254.93	-488.63	-249.20	0.80	0.00	-0.00	35.00	60.00	750.00	11000.00	94.80	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	00:55	01:00	0.08	7812.00	7822.00	10.00	Rotate														35.00	60.00	750.00	11000.00	120.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	01:00	01:50	0.83	7822.00	7842.00	20.00	Rotate				7839.00	1.91	270.64	7811.73	-256.13	-492.48	-250.35	1.85	0.00	-0.00	35.00	60.00	750.00	11000.00	24.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	01:50	02:30	0.67	7842.00	7906.00	64.00	Rotate														35.00	60.00	750.00	11000.00	96.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	02:35	03:20	0.75	7906.00	8000.00	94.00	Rotate				7933.00	1.62	273.84	7905.69	-256.02	-495.37	-250.21	0.33	0.00	-0.00	35.00	60.00	750.00	11000.00	125.33	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	03:25	03:30	0.08	8000.00	8010.00	10.00	Rotate														35.00	60.00	750.00	11000.00	120.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	03:30	04:30	1.00	8010.00	8035.00	25.00	Slide	60.00	0.00		8028.00	0.52	320.67	8000.67	-255.60	-496.98	-249.77	1.39	-0.00	-0.00	42.00		750.00		25.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	

01/13/2023	04:30	05:10	0.67	8035.00	8095.00	60.00	Rotate														35.00	60.00	750.00	11000.00	90.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	05:15	06:15	1.00	8095.00	8189.00	94.00	Rotate				8122.00	0.72	44.68	8094.67	-254.85	-496.84	-249.02	0.90	-0.00	-0.00	35.00	60.00	750.00	11000.00	94.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	06:20	07:20	1.00	8189.00	8284.00	95.00	Rotate				8217.00	0.78	47.66	8189.66	-253.99	-495.94	-248.17	0.08	-0.00	0.00	35.00	60.00	750.00	11000.00	95.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	07:25	08:45	1.33	8284.00	8379.00	95.00	Rotate				8312.00	0.99	65.61	8284.65	-253.21	-494.71	-247.41	0.36	-0.00	0.00	35.00	60.00	750.00	11000.00	71.25	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	08:50	10:05	1.25	8379.00	8474.00	95.00	Rotate				8407.00	1.25	81.03	8379.63	-252.71	-492.94	-246.93	0.42	-0.00	0.00	35.00	60.00	750.00	11000.00	76.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	10:10	11:10	1.00	8474.00	8570.00	96.00	Rotate				8503.00	1.48	92.85	8475.61	-252.61	-490.67	-246.85	0.38	-0.00	0.00	35.00	60.00	750.00	11000.00	96.00	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	11:15	12:20	1.08	8570.00	8665.00	95.00	Rotate				8598.00	1.36	97.60	8570.58	-252.82	-488.33	-247.09	0.18	-0.00	0.00	35.00	60.00	750.00	11000.00	87.69	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	12:25	13:30	1.08	8665.00	8760.00	95.00	Rotate				8693.00	1.02	84.98	8665.56	-252.89	-486.37	-247.19	0.45	-0.00	0.00	45.00	60.00	750.00	11000.00	87.69	3800.00	2800.00	1000.00		205.00	175.00	170.00	
01/13/2023	13:35	15:00	1.42	8760.00	8855.00	95.00	Rotate				8788.00	0.83	81.94	8760.54	-252.72	-484.84	-247.04	0.21	-0.00	0.00	45.00	60.00	750.00	11000.00	67.06	3800.00	2800.00	1000.00		205.00	175.00	170.00	
01/13/2023	15:05	16:20	1.25	8855.00	8950.00	95.00	Rotate				8883.00	0.81	76.64	8855.53	-252.47	-483.51	-246.80	0.08	-0.00	0.00	45.00	60.00	750.00	11000.00	76.00	3800.00	2800.00	1000.00		205.00	175.00	170.00	
01/13/2023	17:00	18:35	1.58	8950.00	8975.00	25.00	Slide	270.00	0.00												42.00		650.00	11000.00	15.79	3800.00	2800.00	1000.00		205.00	190.00	170.00	
01/13/2023	18:35	19:50	1.25	8975.00	9045.00	70.00	Rotate				8978.00	0.38	207.78	8950.53	-252.60	-483.00	-246.93	1.16	0.00	0.00	50.00	60.00	750.00	11000.00	56.00	3700.00	3400.00	300.00		210.00	175.00	160.00	
01/13/2023	19:55	21:15	1.33	9045.00	9140.00	95.00	Rotate				9073.00	0.27	204.12	9045.53	-253.08	-483.24	-247.41	0.12	0.00	0.00	50.00	60.00	750.00	11000.00	71.25	3700.00	3400.00	300.00		210.00	170.00	160.00	
01/13/2023	21:20	22:30	1.17	9140.00	9235.00	95.00	Rotate				9168.00	0.71	65.34	9140.53	-253.04	-482.80	-247.37	0.98	-0.00	0.00	50.00	50.00	750.00	11000.00	81.43	3700.00	3400.00	300.00		210.00	170.00	160.00	
01/13/2023	22:35	22:35	0.00	9235.00	9245.00	10.00	Rotate														50.00	50.00	750.00	11000.00		3700.00	3400.00	300.00		210.00	170.00	160.00	
01/13/2023	22:35	24:00	1.42	9245.00	9268.00	23.00	Slide	280.00	0.00		9262.00	1.19	326.78	9234.52	-251.98	-482.80	-246.31	1.57	-0.00	-0.00	42.00				16.24	3700.00	3400.00	300.00					
01/14/2023	00:00	00:05	0.08	9268.00	9270.00	2.00	Slide	280.00	0.00												42.00				24.00	3700.00	3400.00	300.00					
01/14/2023	00:05	01:20	1.25	9270.00	9329.00	59.00	Rotate														50.00	45.00	750.00	11000.00	47.20	3700.00	3400.00	300.00		210.00	170.00	160.00	
01/14/2023	01:25	03:10	1.75	9329.00	9424.00	95.00	Rotate				9357.00	1.63	326.79	9329.49	-250.02	-484.08	-244.34	0.46	-0.00	-0.00	50.00	45.00	750.00	11000.00	54.29	3700.00	3400.00	300.00		210.00	170.00	160.00	
01/14/2023	03:15	04:40	1.42	9424.00	9518.00	94.00	Rotate				9451.00	1.74	346.89	9423.45	-247.51	-485.14	-241.82	0.64	-0.00	-0.00	50.00	45.00	750.00	11000.00	66.35	3700.00	3400.00	300.00		210.00	170.00	160.00	
01/14/2023	04:45	04:50	0.08	9518.00	9528.00	10.00	Rotate														50.00	45.00	750.00	11000.00	120.00	3700.00	3400.00	300.00		210.00	170.00	160.00	
01/14/2023	04:50	05:35	0.75	9528.00	9543.00	15.00	Slide	170.00	0.00												50.00	45.00	750.00	11000.00	20.00	3700.00	3400.00	300.00		210.00	170.00	160.00	
01/14/2023	05:35	06:50	1.25	9543.00	9613.00	70.00	Rotate				9546.00	0.61	325.88	9518.43	-245.69	-485.75	-239.99	1.25	-0.00	-0.00	50.00	45.00	750.00	11000.00	56.00	3700.00	3400.00	300.00		210.00	170.00	160.00	
01/14/2023	06:55	08:20	1.42	9613.00	9708.00	95.00	Rotate				9641.00	0.53	310.77	9613.42	-244.98	-486.37	-239.28	0.18	0.00	-0.00	50.00	45.00	750.00	11000.00	67.06	3700.00	3400.00	300.00		210.00	170.00	160.00	
01/14/2023	08:25	09:50	1.42	9708.00	9755.00	47.00	Rotate				9736.00	0.66	280.95	9708.42	-244.59	-487.24	-238.88	0.35	0.00	-0.00	50.00	45.00	750.00	11000.00	33.18	3700.00	3400.00	300.00		210.00	170.00	160.00	

Nudge to Vertical - Slide Sheet

	Nudge to Vertical - Slide Sheet	ALTITUDE ENERGY PARTNERS

Operator	Matador Resources	BHA	Nudge to Vertical	BHA #:	4	RKB:	3293.80	North Reference:	GRID	Total Drilled:	863.00
Site	Uncle Richard State Com Pad	Survey Offset	67.00	BHA Type:	Motor	Units:	Us Feet	Declination:	6.30	Rotate :	863.00 (100.00%)
Well Name	Uncle Richard State Com 213H - ST01	Gamma Offset	53.93	Bit Type:	PDC	Grid Conv:	0.56	VS Azimuth:	359.33	Slide:	0.00 (0.00%)

Drilling Data											Survey Data										Parameters									Weights			Comments
Date	Start Time	End Time	Hrs	Start Depth	End Depth	Course Len.	Operation	Tgt TF	TF	MY	MD	INC	AZI	TVD	NS	EW	VS	DLS	UD	LR	WOB	RPM	FLOW	Tq	ROP	SPP On Btm	SPP Off Btm	Diff	Temp	PU	ROT	SO	Comments
01/15/2023	00:25	00:55	0.50	9755.00	9803.00	48.00	Rotate														35.00	60.00	750.00	15.00	96.00	4000.00	3500.00	500.00		270.00	255.00	240.00	
01/15/2023	01:00	01:35	0.58	9803.00	9897.00	94.00	Rotate				9830.00	0.66	253.36	9802.41	-244.65	-488.29	-238.92	0.33	0.00	-0.00	35.00	60.00	750.00	15.00	161.14	4000.00	3500.00	500.00		270.00	255.00	240.00	
01/15/2023	01:40	02:25	0.75	9897.00	9993.00	96.00	Rotate				9926.00	0.76	245.15	9898.41	-245.07	-489.40	-239.33	0.15	0.00	-0.00	35.00	60.00	750.00	15.00	128.00	4000.00	3500.00	500.00		270.00	255.00	240.00	
01/15/2023	02:30	03:15	0.75	9993.00	10088.00	95.00	Rotate				10021.00	0.72	242.01	9993.40	-245.62	-490.49	-239.86	0.06	0.00	-0.00	35.00	60.00	750.00	15.00	126.67	4000.00	3500.00	500.00		270.00	255.00	240.00	
01/15/2023	03:20	04:15	0.92	10088.00	10183.00	95.00	Rotate				10116.00	0.81	251.29	10088.39	-246.11	-491.66	-240.35	0.16	0.00	-0.00	35.00	60.00	750.00	15.00	103.64	4000.00	3500.00	500.00		270.00	255.00	240.00	
01/15/2023	04:20	05:15	0.92	10183.00	10278.00	95.00	Rotate				10211.00	0.84	248.78	10183.38	-246.58	-492.94	-240.80	0.05	0.00	-0.00	35.00	60.00	750.00	15.00	103.64	4000.00	3500.00	500.00		270.00	255.00	240.00	
01/15/2023	05:20	06:25	1.08	10278.00	10372.00	94.00	Rotate				10305.00	0.93	248.30	10277.37	-247.11	-494.29	-241.31	0.10	0.00	-0.00	35.00	60.00	750.00	15.00	86.77	4000.00	3500.00	500.00		270.00	255.00	240.00	
01/15/2023	06:30	07:45	1.25	10372.00	10467.00	95.00	Rotate				10400.00	1.55	259.84	10372.35	-247.62	-496.27	-241.80	0.70	0.00	-0.00	35.00	60.00	750.00	15.00	76.00	4000.00	3500.00	500.00		270.00	255.00	240.00	
01/15/2023	07:50	09:05	1.25	10467.00	10562.00	95.00	Rotate				10495.00	1.74	270.28	10467.31	-247.84	-498.98	-241.99	0.37	0.00	-0.00	35.00	60.00	750.00	15.00	76.00	4000.00	3500.00	500.00		270.00	255.00	240.00	
01/15/2023	09:10	09:50	0.67	10562.00	10618.00	56.00	Rotate														35.00	60.00	750.00	15.00	84.00	4000.00	3500.00	500.00		270.00	255.00	240.00	

Pilot Hole - Slide Sheet

□	Pilot Hole - Slide Sheet	ALTITUDE ENERGY PARTNERS

Operator	Matador Resources	BHA	Pilot Hole	BHA #:	5	RKB:	3293.80	North Reference:	GRID	Total Drilled:	778.00
Site	Uncle Richard State Com Pad	Survey Offset	64.00	BHA Type:	Motor	Units:	Us Feet	Declination:	6.30	Rotate :	713.00 (91.65%)
Well Name	Uncle Richard State Com 213H - ST01	Gamma Offset	50.99	Bit Type:	PDC	Grid Conv:	0.56	VS Azimuth:	359.33	Slide:	65.00 (8.35%)

Drilling Data											Survey Data										Parameters									Weights			Comments
Date	Start Time	End Time	Hrs	Start Depth	End Depth	Course Len.	Operation	Tgt TF	TF	MY	MD	INC	AZI	TVD	NS	EW	VS	DLS	UD	LR	WOB	RPM	FLOW	Tq	ROP	SPP On Btm	SPP Off Btm	Diff	Temp	PU	ROT	SO	Comments
01/18/2023	00:40	14:25	13.75	10618.00	10685.00	67.00	Rotate														25.00	50.00	300.00	9.00	4.87	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/18/2023	14:30	15:20	0.83	10685.00	10700.00	15.00	Slide	90.00	0.00												25.00		300.00	9.00	18.00	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/18/2023	15:20	16:00	0.67	10700.00	10778.00	78.00	Rotate				10714.00	1.55	4.97	10686.24	-245.22	-502.53	-239.32	1.30	-0.00	-0.00	25.00	50.00	300.00	9.00	117.00	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/18/2023	16:05	16:50	0.75	10778.00	10872.00	94.00	Rotate														25.00	50.00	300.00	9.00	125.33	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/18/2023	16:55	17:05	0.17	10872.00	10885.00	13.00	Rotate														25.00	50.00	300.00	9.00	78.00	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/18/2023	17:05	18:00	0.92	10885.00	10900.00	15.00	Slide	0.00	0.00												25.00		300.00	9.00	16.36	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/18/2023	18:00	18:55	0.92	10900.00	10966.00	66.00	Rotate														25.00	50.00	300.00	9.00	72.00	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/18/2023	19:00	19:20	0.33	10966.00	10978.00	12.00	Rotate														25.00	50.00	300.00	9.00	36.00	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/18/2023	19:20	21:30	2.17	10978.00	11013.00	35.00	Slide	210.00	0.00												32.00		300.00	9.00	16.15	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/18/2023	21:30	22:30	1.00	11013.00	11060.00	47.00	Rotate														25.00	50.00	300.00	9.00	47.00	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/18/2023	22:35	24:00	1.42	11060.00	11128.00	68.00	Rotate														25.00	50.00	300.00	9.00	48.00	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/19/2023	00:00	00:35	0.58	11128.00	11155.00	27.00	Rotate														25.00	50.00	300.00	9.00	46.29	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/19/2023	00:40	02:10	1.50	11155.00	11250.00	95.00	Rotate														25.00	50.00	300.00	9.00	63.33	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/19/2023	02:15	03:30	1.25	11250.00	11343.00	93.00	Rotate														25.00	50.00	300.00	9.00	74.40	3200.00	2400.00	800.00		230.00	205.00	190.00	
01/19/2023	03:35	04:15	0.67	11343.00	11396.00	53.00	Rotate														25.00	50.00	300.00	9.00	79.50	3200.00	2400.00	800.00		230.00	205.00	190.00	

Pilot Hole - 2 - Slide Sheet

	Pilot Hole - 2 - Slide Sheet	ALTITUDE ENERGY PARTNERS

Operator	Matador Resources	BHA	Pilot Hole - 2	BHA #:	6	RKB:	3293.80	North Reference:	GRID	Total Drilled:	1271.00
Site	Uncle Richard State Com Pad	Survey Offset	64.00	BHA Type:	Motor	Units:	Us Feet	Declination:	6.30	Rotate :	1180.00 (92.84%)
Well Name	Uncle Richard State Com 213H - ST01	Gamma Offset	50.49	Bit Type:	PDC	Grid Conv:	0.56	VS Azimuth:	359.33	Slide:	91.00 (7.16%)

Drilling Data											Survey Data										Parameters									Weights			Comments
Date	Start Time	End Time	Hrs	Start Depth	End Depth	Course Len.	Operation	Tgt TF	TF	MY	MD	INC	AZI	TVD	NS	EW	VS	DLS	UD	LR	WOB	RPM	FLOW	Tq	ROP	SPP On Btm	SPP Off Btm	Diff	Temp	PU	ROT	SO	Comments
01/19/2023	20:15	20:40	0.42	11396.00	11438.00	42.00	Rotate														25.00	50.00	375.00	12000.00	100.80	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/19/2023	21:20	21:30	0.17	11438.00	11448.00	10.00	Rotate														25.00	50.00	375.00	12000.00	60.00	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/19/2023	21:30	22:55	1.42	11448.00	11478.00	30.00	Slide	0.00	0.00												25.00	50.00	375.00	12000.00	21.18	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/19/2023	22:55	23:25	0.50	11478.00	11532.00	54.00	Rotate														25.00	50.00	375.00	12000.00	108.00	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/19/2023	23:30	24:00	0.50	11532.00	11594.00	62.00	Rotate														25.00	50.00	375.00	12000.00	124.00	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	00:00	00:20	0.33	11594.00	11627.00	33.00	Rotate														25.00	50.00	375.00	12000.00	99.00	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	00:25	00:30	0.08	11627.00	11637.00	10.00	Rotate														25.00	50.00	375.00	12000.00	120.00	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	00:30	01:35	1.08	11637.00	11657.00	20.00	Slide	0.00	0.00												25.00	50.00	375.00	12000.00	18.46	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	01:35	02:05	0.50	11657.00	11722.00	65.00	Rotate														25.00	50.00	375.00	12000.00	130.00	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	02:10	03:05	0.92	11722.00	11817.00	95.00	Rotate														25.00	50.00	375.00	12000.00	103.64	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	03:10	03:20	0.17	11817.00	11827.00	10.00	Rotate														25.00	50.00	375.00	12000.00	60.00	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	03:20	04:00	0.67	11827.00	11837.00	10.00	Slide	235.00	0.00												25.00	50.00	375.00	12000.00	15.00	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	04:00	04:40	0.67	11837.00	11911.00	74.00	Rotate														25.00	50.00	375.00	12000.00	111.00	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	04:45	05:45	1.00	11911.00	12006.00	95.00	Rotate														25.00	50.00	375.00	12000.00	95.00	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	05:50	05:55	0.08	12006.00	12015.00	9.00	Rotate														25.00	50.00	375.00	12000.00	108.00	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	05:55	07:10	1.25	12015.00	12029.00	14.00	Slide	300.00	0.00												25.00	50.00	375.00	12000.00	11.20	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	14:20	15:55	1.58	12029.00	12113.00	84.00	Rotate														25.00	50.00	375.00	12000.00	53.05	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	15:55	17:00	1.08	12113.00	12130.00	17.00	Slide	300.00	0.00												25.00	50.00	375.00	12000.00	15.69	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	17:00	18:05	1.08	12130.00	12196.00	66.00	Rotate														25.00	50.00	375.00	12000.00	60.92	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	18:35	20:25	1.83	12196.00	12290.00	94.00	Rotate														25.00	50.00	375.00	12000.00	51.27	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	20:30	22:50	2.33	12290.00	12385.00	95.00	Rotate														25.00	50.00	375.00	12000.00	40.71	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/20/2023	22:55	24:00	1.08	12385.00	12434.00	49.00	Rotate														25.00	50.00	375.00	12000.00	45.23	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/21/2023	00:00	01:10	1.17	12434.00	12479.00	45.00	Rotate														25.00	50.00	375.00	12000.00	38.57	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/21/2023	01:15	04:30	3.25	12479.00	12574.00	95.00	Rotate														25.00	50.00	375.00	12000.00	29.23	3000.00	2250.00	750.00		250.00	225.00	190.00	
01/21/2023	04:35	08:15	3.67	12574.00	12667.00	93.00	Rotate														25.00	50.00	375.00	12000.00	25.36	3000.00	2250.00	750.00		250.00	225.00	190.00	

Pilot Hole - 3 - Slide Sheet

	Pilot Hole - 3 - Slide Sheet	ALTITUDE ENERGY PARTNERS

Operator	Matador Resources	BHA	Pilot Hole - 3	BHA #:	7	RKB:	3293.80	North Reference:	GRID	Total Drilled:	844.00
Site	Uncle Richard State Com Pad	Survey Offset	63.00	BHA Type:	Motor	Units:	Us Feet	Declination:	6.30	Rotate :	776.00 (91.94%)
Well Name	Uncle Richard State Com 213H - ST01	Gamma Offset	49.65	Bit Type:	PDC	Grid Conv:	0.56	VS Azimuth:	359.33	Slide:	68.00 (8.06%)

Drilling Data											Survey Data										Parameters								Weights			Comments
Date	Start Time	End Time	Hrs	Start Depth	End Depth	Course Len.	Operation	Tgt TF	TF	MY	MD	INC	AZI	TVD	NS	EW	VS	DLS	UD	LR	WOB	RPM	FLOW	Tq	ROP	SPP On Btm	SPP Off Btm	Diff	Temp	PU	ROT	SO	Comments
01/22/2023	01:20	02:35	1.25	12667.00	12761.00	94.00	Rotate														25.00	45.00	375.00	10500.00	75.20	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	02:40	04:00	1.33	12761.00	12856.00	95.00	Rotate														25.00	45.00	375.00	10500.00	71.25	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	04:05	05:10	1.08	12856.00	12951.00	95.00	Rotate														25.00	45.00	375.00	10500.00	87.69	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	05:15	05:25	0.17	12951.00	12961.00	10.00	Rotate														25.00	45.00	375.00	10500.00	60.00	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	05:25	07:30	2.08	12961.00	12986.00	25.00	Slide	270.00	0.00												25.00	45.00	375.00	10500.00	12.00	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	07:30	08:15	0.75	12986.00	13046.00	60.00	Rotate														25.00	45.00	375.00	10500.00	80.00	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	08:20	08:35	0.25	13046.00	13060.00	14.00	Rotate														25.00	45.00	375.00	10500.00	56.00	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	08:35	11:50	3.25	13060.00	13092.00	32.00	Rotate														25.00	45.00	375.00	10500.00	9.85	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	11:50	12:45	0.92	13092.00	13140.00	48.00	Rotate														25.00	45.00	375.00	10500.00	52.36	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	13:25	13:50	0.42	13140.00	13155.00	15.00	Rotate														25.00	45.00	375.00	10500.00	36.00	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	13:50	17:35	3.75	13155.00	13198.00	43.00	Slide	70.00	0.00												25.00	45.00	300.00	10500.00	11.47	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	17:35	18:15	0.67	13198.00	13234.00	36.00	Rotate														25.00	45.00	375.00	10500.00	54.00	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	18:20	19:50	1.50	13234.00	13329.00	95.00	Rotate														25.00	45.00	375.00	10500.00	63.33	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	19:55	22:00	2.08	13329.00	13422.00	93.00	Rotate														25.00	45.00	375.00	10500.00	44.64	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/22/2023	22:05	24:00	1.92	13422.00	13491.00	69.00	Rotate														25.00	45.00	375.00	10500.00	36.00	3800.00	3100.00	700.00		260.00	230.00	190.00	
01/23/2023	00:00	00:35	0.58	13491.00	13511.00	20.00	Rotate														25.00	45.00	375.00	10500.00	34.29	3800.00	3100.00	700.00		260.00	230.00	190.00	

Intent ☐ As Drilled ☐

API #

Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO.
30-025-50845

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
UNCLE RICHARD STATE COM

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

8. Well Number
213H

2. Name of Operator
Matador Production Company

9. OGRID Number
228937

3. Address of Operator
One Lincoln Centre, 5400 LBJ Freeway, Ste 1500, Dallas, TX 75240

10. Pool name or Wildcat
JAL; WOLFCAMP, WEST

4. Well Location
Unit Letter O : 322 feet from the SOUTH line and 1486 feet from the EAST line
Section 32 Township 24S Range 36E NMPM County LEA

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
3,256'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- 4/7/23: Pressure test casing to 6000 psi for 30 minutes. Gained 500 psi. Good Test.
- 4/9-4/22/23: Perforate from 11,445' – 21,144' (0.41)(46 stages)(1016 holes).
  Frac with 25,322,291 lbs proppant and 550,691 bbls fluid.
- 4/29/23: Drill all plugs out and clean out to a PBTD of 21,338'.
- 6/23/23: Begin flowback operations.

Spud Date: 1/05/2023 Rig Release Date: 3/10/2023

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE: Eileen M Kosakowski TITLE: Regulatory Analyst DATE: 9/11/2023

PRINT NAME: Eileen M Kosakowski E-mail address: eileen.kosakowski@matadorresources.com PHONE: 832-672-4604

For State Use Only

APPROVED BY:_____ TITLE_____ DATE_____
Conditions of Approval (if any):

Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-105
Revised April 3, 2017

1. WELL API NO. 30-025-50845
2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN
3. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:

☒ **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☐ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name: UNCLE RICHARD STATE COM
6. Well Number: 213H

7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER

8. Name of Operator: Matador Production Company
9. OGRID: 228937
10. Address of Operator: One Lincoln Centre, 5400 LBJ Freeway, Ste 1500, Dallas, TX 75240
11. Pool name or Wildcat: JAL; WOLFCAMP, WEST

12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	O	32	24S	36E		322	S	1486	E	LEA
BH:	B	29	24S	36E		211	N	2009	E	LEA

13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released	16. Date Completed (Ready to Produce)	17. Elevations (DF and RKB, RT, GR, etc.)
1/05/2023	3/07/2023	3/10/2023	6/23/2023	3,256’

18. Total Measured Depth of Well	19. Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run
21,383’	21,338’	YES	GAMMA

22. Producing Interval(s), of this completion - Top, Bottom, Name
11,445’-21,144’: JAL; WOLFCAMP, WEST

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13.375”	54.5#	1,671’	17.5”	1385 sxs	
10.75”	45.5#	6,111’	12.25”	1175 sxs	
7.65”	29.7#	10,603’	9.875”	2010 sxs	
5.5”	23#	21,370’	6.75”	1325 sxs	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)
11,445’ – 21,144’ (0.41)(46 stages)(1016 holes)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
11,445’-21,144’	25,322,291 lbs proppant, 550,691 bbls fluid

28. **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*
6/24/2023	Flowing	Prod

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
7/11/2023	24	106/128		1000	787	3675	787

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas – MCF	Water - Bbl.	Oil Gravity - API - *(Corr.)*
-	400		1000	787	3675	40.5

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*: Sold
30. Test Witnessed By
31. List Attachments

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.
33. Rig Release Date: 6/23/2023
34. If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude _____ Longitude _____ NAD83

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Eileen M Kosakowski Date: 9/11/2023
Printed Name: Eileen M Kosakowski Title: Regulatory Analyst E-mail Address: eileen.kosakowski@matadorresources.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy 1,602'md/1,602'tvd	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt 2,097'md/2,097'tvd	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 3,657'md/3,652'tvd	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand 6,130'md/6,112'tvd	T. Morrison	
T. Drinkard	T. Bone Springs 8,031'md/8,003'tvd	T.Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp 11,353'md/11,257'tvd	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from……..……..….to……. No. 3, from……to…….……

No. 2, from……to…… No. 4, from……to…….

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from…….to……feet……

No. 2, from…….to……feet……

No. 3, from…….to……feet……

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology		From	To	Thickness In Feet	Lithology

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 263617
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☑	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☑	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS

Action 263617

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
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CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	5/5/2026