

Matador Production Company ✓

One Lincoln Centre • 5400 LBJ Freeway • Suite 1500 • Dallas, Texas 75240
Voice 972.371.5218 • Fax 972.371.5201
amonroe@matadorresources.com

HOBBS OCD
FEB 19 2016
RECEIVED

February 16, 2016

EMNRD - NMOCD
Attn: Donna Mull
1625 N. French Dr.
Hobbs, NM 88240

RE: CONINE 03-20-35 RN #121H ✓
API 30-025-42719 ✓
SHL Sec 3 T20S R35E ✓
Lea County, NM

515 FNL & 26 FWL

Dear Ms. Mull:

Enclosed please find the original directional survey with certification from Baker Hughes. These should be the final required completion documents for the Conine 03 20 35 RN #121H.

If however you need further information, please contact me at 972-371-5218 or via email at amonroe@matadorresources.com.

Thank you,



Ava Monroe
Sr. Engineering Technician

Encl.

MAR 04 2016





INTEQ

1058 Baker Hughes Dr.
Broussard, LA 70518
Tel 337-856-7201 or 800-395-7201

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FEB 19 2016

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State of New Mexico
County of Lea

I, Bret Bartram, MWD Field Service Engineer, certify that I am employed by INTEQ ; did conduct or supervise on the day(s) of 10/16/2015 through 10/26/2015 the taking of a MWD survey from a depth of 9,612 feet to a depth of 15,032 feet ; that the data is true, correct, complete and within the limitations of the tool as set forth by Baker Hughes INTEQ ; that I am authorized and qualified to make this report ; that this survey was conducted at the request of Matador Production Company for the Conine 03-20S-35E RN No. 121H Well, API No. 30-025-42719-00 in Lea County, New Mexico ; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by INTEQ.

Bret Bartram
Field Service Engineer

SO#: 7563841

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FEB 19 2016
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Actual Wellpath Report

Conine 03-20S-35E RN No. 121H AWP 1670015032' Proj: 15119'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Conine 03-20S-35E RN No. 121H
Area	Lea County, NM	Well	Conine 03-20S-35E RN #121H
Field	Pearl; Bone Spring, South Conine 03-20S-35E RN #121H	Wellbore	Conine 03-20S-35E RN #121H AWB
Facility	Conine 03-20S-35E RN #121H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.1.1
North Reference	Grid	User	Tranlam
Scale	0.999993	Report Generated	11/13/2015 at 11:03:58 AM
Convergence at slot	0.47° East	Database/Source file	WA_Midland/Conine_03-20S-35E_RN_#121H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	771289.00	586051.00	32°36'29.048"N	103°27'08.437"W
Facility Reference Pt			771289.00	586051.00	32°36'29.048"N	103°27'08.437"W
Field Reference Pt			0.00	0.00	30°59'24.512"N	105°55'44.137"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 809 (RT) to Facility Vertical Datum	3714.50ft
Horizontal Reference Pt	Slot	Patterson 809 (RT) to Mean Sea Level	3714.50ft
Vertical Reference Pt	Patterson 809 (RT)	Patterson 809 (RT) to Mud Line at Slot (Conine 03-20S-35E RN No. 121H)	28.50ft
MD Reference Pt	Patterson 809 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.73°



Actual Wellpath Report

Conine 03-20S-35E RN No. 121H AWP 167' - 15032' Proj: 15119'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Conine 03-20S-35E RN No. 121H
Area	Lea County, NM	Well	Conine 03-20S-35E RN #121H
Field	Pearl; Bone Spring, South Conine 03-20S-35E RN #121H		Conine 03-20S-35E RN #121H AWB
Facility	Conine 03-20S-35E RN #121H	Wellbore	

WELLPATH DATA (180 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
0.00†	0.000	297.500	0.00	0.00	0.00	0.00	771289.00	586051.00	32°36'29.048"N	103°27'08.437"W	0.00	0.000	0.00
28.50	0.000	297.500	28.50	0.00	0.00	0.00	771289.00	586051.00	32°36'29.048"N	103°27'08.437"W	0.00	0.000	0.00
167.00	0.000	223.300	167.00	0.00	0.00	0.00	771289.00	586051.00	32°36'29.048"N	103°27'08.437"W	0.00	0.000	0.00
296.00	0.100	297.500	296.00	-0.10	0.05	-0.10	771288.90	586051.05	32°36'29.049"N	103°27'08.438"W	0.11	297.500	0.08
484.00	0.200	31.300	484.00	-0.07	0.41	-0.07	771288.93	586051.41	32°36'29.052"N	103°27'08.438"W	0.41	349.598	0.12
668.00	0.300	39.700	668.00	0.40	1.05	0.40	771289.40	586052.05	32°36'29.058"N	103°27'08.432"W	1.13	20.780	0.06
859.00	0.300	35.100	859.00	1.02	1.85	1.01	771290.01	586052.85	32°36'29.066"N	103°27'08.425"W	2.10	28.589	0.01
940.00	0.300	33.300	939.99	1.26	2.20	1.24	771290.24	586053.20	32°36'29.070"N	103°27'08.422"W	2.53	29.530	0.01
1031.00	0.400	44.400	1030.99	1.61	2.62	1.60	771290.60	586053.62	32°36'29.074"N	103°27'08.418"W	3.07	31.343	0.13
1125.00	0.600	39.400	1124.99	2.16	3.24	2.14	771291.14	586054.24	32°36'29.080"N	103°27'08.412"W	3.88	33.456	0.22
1219.00	0.600	39.700	1218.98	2.79	4.00	2.77	771291.77	586055.00	32°36'29.087"N	103°27'08.404"W	4.86	34.687	0.00
1312.00	0.700	24.600	1311.98	3.34	4.89	3.31	771292.31	586055.89	32°36'29.096"N	103°27'08.398"W	5.91	34.135	0.21
1406.00	0.800	29.200	1405.97	3.90	5.98	3.87	771292.87	586056.98	32°36'29.107"N	103°27'08.391"W	7.13	32.916	0.12
1499.00	1.100	36.600	1498.96	4.76	7.27	4.72	771293.72	586058.27	32°36'29.120"N	103°27'08.381"W	8.67	33.017	0.35
1593.00	1.100	33.200	1592.94	5.80	8.75	5.75	771294.75	586059.75	32°36'29.134"N	103°27'08.369"W	10.47	33.342	0.07
1686.00	1.100	23.500	1685.92	6.65	10.31	6.60	771295.60	586061.31	32°36'29.150"N	103°27'08.359"W	12.24	32.617	0.20
1747.00	1.100	31.200	1746.91	7.19	11.35	7.14	771296.14	586062.35	32°36'29.160"N	103°27'08.353"W	13.41	32.159	0.24
1869.00	0.800	39.900	1868.89	8.35	13.00	8.29	771297.29	586064.00	32°36'29.176"N	103°27'08.339"W	15.42	32.512	0.27
1963.00	1.200	347.700	1962.88	8.57	14.47	8.50	771297.50	586065.47	32°36'29.190"N	103°27'08.336"W	16.78	30.431	1.01
2056.00	2.000	334.400	2055.84	7.67	16.89	7.59	771296.59	586067.88	32°36'29.214"N	103°27'08.347"W	18.51	24.209	0.94
2150.00	3.000	322.100	2149.74	5.32	20.50	5.22	771294.22	586071.50	32°36'29.250"N	103°27'08.374"W	21.15	14.288	1.50
2243.00	4.500	311.100	2242.53	0.94	25.01	0.83	771289.83	586076.01	32°36'29.295"N	103°27'08.425"W	25.02	1.894	1.51
2337.00	4.800	309.600	2336.22	-4.84	29.94	-4.98	771284.02	586080.94	32°36'29.345"N	103°27'08.492"W	30.35	350.552	0.34
2431.00	5.000	308.700	2429.87	-11.04	35.01	-11.21	771277.79	586086.01	32°36'29.395"N	103°27'08.565"W	36.76	342.246	0.23
2524.00	5.100	309.300	2522.51	-17.38	40.16	-17.57	771271.43	586091.16	32°36'29.447"N	103°27'08.639"W	43.84	336.370	0.12
2618.00	4.600	310.200	2616.18	-23.47	45.24	-23.68	771265.32	586096.24	32°36'29.498"N	103°27'08.710"W	51.06	332.368	0.54
2711.00	4.200	296.800	2708.90	-29.34	49.18	-29.57	771259.43	586100.18	32°36'29.537"N	103°27'08.778"W	57.39	328.983	1.18
2805.00	3.800	297.600	2802.68	-35.16	52.18	-35.40	771253.60	586103.18	32°36'29.567"N	103°27'08.846"W	63.06	325.842	0.43
2898.00	3.400	303.700	2895.49	-40.17	55.14	-40.43	771248.57	586106.14	32°36'29.597"N	103°27'08.904"W	68.37	323.748	0.59
3085.00	4.100	312.200	3082.09	-49.70	62.70	-50.00	771239.00	586113.70	32°36'29.673"N	103°27'09.015"W	80.20	321.433	0.48



Actual Wellpath Report

Conine 03-20S-35E RN No. 121H AWP 167' - 15032' Proj: 15119'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Conine 03-20S-35E RN No. 121H
Area	Lea County, NM	Well	Conine 03-20S-35E RN #121H
Field	Pearl; Bone Spring, South Conine 03-20S-35E RN #121H	Wellbore	Conine 03-20S-35E RN #121H AWB
Facility	Conine 03-20S-35E RN #121H		

WELLPATH DATA (180 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
3179.00	5.200	307.300	3175.78	-55.55	67.54	-55.87	771233.13	586118.54	32°36'29.721"N	103°27'09.084"W	87.66	320.401	1.24
3273.00	5.200	314.600	3269.40	-61.95	73.11	-62.30	771226.71	586124.11	32°36'29.777"N	103°27'09.158"W	96.05	319.568	0.70
3366.00	5.000	316.500	3362.03	-67.71	79.01	-68.09	771220.91	586130.01	32°36'29.835"N	103°27'09.225"W	104.30	319.249	0.28
3460.00	4.200	312.600	3455.72	-73.04	84.32	-73.44	771215.56	586135.31	32°36'29.888"N	103°27'09.287"W	111.81	318.944	0.91
3554.00	3.800	311.100	3549.49	-77.90	88.69	-78.32	771210.68	586139.69	32°36'29.932"N	103°27'09.344"W	118.32	318.554	0.44
3647.00	3.700	313.500	3642.30	-82.38	92.78	-82.82	771206.18	586143.78	32°36'29.973"N	103°27'09.396"W	124.37	318.248	0.20
3741.00	4.700	308.900	3736.04	-87.56	97.29	-88.02	771200.98	586148.29	32°36'30.018"N	103°27'09.457"W	131.20	317.865	1.12
3834.00	4.500	312.700	3828.74	-93.18	102.16	-93.66	771195.34	586153.16	32°36'30.066"N	103°27'09.522"W	138.60	317.484	0.39
3928.00	4.200	306.900	3922.47	-98.62	106.72	-99.13	771189.87	586157.72	32°36'30.112"N	103°27'09.585"W	145.66	317.114	0.57
4021.00	4.000	309.400	4015.23	-103.83	110.83	-104.36	771184.64	586161.83	32°36'30.153"N	103°27'09.646"W	152.23	316.723	0.29
4114.00	3.700	304.700	4108.02	-108.79	114.60	-109.33	771179.67	586165.59	32°36'30.191"N	103°27'09.704"W	158.38	316.347	0.47
4208.00	3.700	305.100	4201.83	-113.75	118.07	-114.30	771174.70	586169.07	32°36'30.226"N	103°27'09.762"W	164.33	315.927	0.03
4301.00	3.700	303.600	4294.64	-118.69	121.45	-119.26	771169.74	586172.45	32°36'30.260"N	103°27'09.819"W	170.22	315.522	0.10
4395.00	4.300	303.900	4388.41	-124.12	125.10	-124.71	771164.29	586176.10	32°36'30.296"N	103°27'09.883"W	176.64	315.089	0.64
4488.00	4.600	306.800	4481.13	-129.98	129.27	-130.59	771158.41	586180.27	32°36'30.338"N	103°27'09.951"W	183.75	314.710	0.40
4582.00	4.700	306.400	4574.82	-136.08	133.82	-136.71	771152.29	586184.82	32°36'30.383"N	103°27'10.022"W	191.30	314.388	0.11
4675.00	4.600	303.300	4667.51	-142.24	138.13	-142.89	771146.11	586189.13	32°36'30.426"N	103°27'10.094"W	198.74	314.028	0.29
4769.00	4.200	302.200	4761.23	-148.28	142.03	-148.96	771140.05	586193.03	32°36'30.466"N	103°27'10.165"W	205.82	313.637	0.43
4840.00	4.200	302.200	4832.04	-152.67	144.80	-153.36	771135.65	586195.80	32°36'30.493"N	103°27'10.216"W	210.92	313.357	0.00
4863.00	4.000	299.800	4854.98	-154.08	145.65	-154.76	771134.24	586196.65	32°36'30.502"N	103°27'10.232"W	212.52	313.262	1.15
4956.00	4.200	299.900	4947.75	-159.83	148.96	-160.53	771128.47	586199.96	32°36'30.535"N	103°27'10.299"W	219.00	312.858	0.22
5050.00	4.300	298.500	5041.49	-165.89	152.36	-166.61	771122.39	586203.35	32°36'30.569"N	103°27'10.370"W	225.77	312.441	0.15
5143.00	4.300	296.600	5134.23	-172.06	155.58	-172.79	771116.21	586206.58	32°36'30.602"N	103°27'10.442"W	232.51	311.999	0.15
5237.00	4.000	297.300	5227.98	-178.11	158.66	-178.86	771110.14	586209.66	32°36'30.633"N	103°27'10.512"W	239.09	311.576	0.32
5331.00	4.200	295.400	5321.74	-184.12	161.64	-184.88	771104.12	586212.64	32°36'30.663"N	103°27'10.583"W	245.58	311.163	0.26
5424.00	3.100	304.700	5414.55	-189.25	164.53	-190.02	771098.98	586215.53	32°36'30.692"N	103°27'10.642"W	251.36	310.888	1.34
5518.00	1.800	324.000	5508.46	-192.19	167.18	-192.98	771096.02	586218.17	32°36'30.718"N	103°27'10.677"W	255.32	310.902	1.62
5612.00	1.300	326.900	5602.43	-193.63	169.26	-194.43	771094.57	586220.26	32°36'30.739"N	103°27'10.694"W	257.79	311.041	0.54
5705.00	1.200	335.100	5695.41	-194.61	171.03	-195.42	771093.58	586222.03	32°36'30.756"N	103°27'10.705"W	259.69	311.192	0.22
5748.00	1.300	335.500	5738.40	-195.00	171.88	-195.81	771093.19	586222.88	32°36'30.765"N	103°27'10.709"W	260.55	311.277	0.23



Actual Wellpath Report

Conine 03-20S-35E RN No. 121H AWP 167' - 15032' Proj: 15119'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Conine 03-20S-35E RN No. 121H
Area	Lea County, NM	Well	Conine 03-20S-35E RN #121H
Field	Pearl; Bone Spring, South Conine 03-20S-35E RN #121H		
Facility	Conine 03-20S-35E RN #121H	Wellbore	Conine 03-20S-35E RN #121H AWB

WELLPATH DATA (180 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
5863.00	0.800	339.000	5853.38	-195.82	173.82	-196.64	771092.36	586224.82	32°36'30.784"N	103°27'10.719"W	262.45	311.475	0.44
5956.00	0.800	352.500	5946.37	-196.13	175.07	-196.96	771092.05	586226.07	32°36'30.796"N	103°27'10.722"W	263.52	311.633	0.20
6050.00	0.700	12.100	6040.36	-196.09	176.28	-196.92	771092.08	586227.18	32°36'30.808"N	103°27'10.722"W	264.30	311.834	0.29
6143.00	0.500	44.200	6133.35	-195.68	177.13	-196.52	771092.48	586228.13	32°36'30.817"N	103°27'10.717"W	264.56	312.029	0.41
6237.00	0.700	254.300	6227.35	-195.95	177.27	-196.79	771092.21	586228.26	32°36'30.818"N	103°27'10.720"W	264.86	312.013	1.23
6331.00	0.500	244.300	6321.35	-196.87	176.93	-197.71	771091.29	586227.93	32°36'30.815"N	103°27'10.731"W	265.32	311.826	0.24
6424.00	0.400	231.300	6414.34	-197.49	176.55	-198.33	771090.67	586227.55	32°36'30.811"N	103°27'10.738"W	265.53	311.676	0.15
6518.00	0.400	222.200	6508.34	-197.97	176.11	-198.80	771090.20	586227.10	32°36'30.807"N	103°27'10.744"W	265.59	311.535	0.07
6611.00	0.400	207.000	6601.34	-198.34	175.58	-199.17	771089.83	586226.57	32°36'30.802"N	103°27'10.748"W	265.51	311.397	0.11
6705.00	0.400	181.700	6695.34	-198.50	174.96	-199.33	771089.67	586225.95	32°36'30.795"N	103°27'10.750"W	265.22	311.274	0.19
6798.00	0.900	198.700	6788.33	-198.75	173.94	-199.57	771089.43	586224.94	32°36'30.785"N	103°27'10.753"W	264.73	311.074	0.57
6892.00	1.100	250.600	6882.32	-199.84	172.94	-200.66	771088.34	586223.94	32°36'30.776"N	103°27'10.766"W	264.90	310.757	0.95
6985.00	1.400	267.400	6975.30	-201.82	172.59	-202.64	771086.36	586223.59	32°36'30.772"N	103°27'10.789"W	266.18	310.422	0.51
7079.00	1.300	273.000	7069.27	-204.03	172.60	-204.85	771084.15	586223.59	32°36'30.773"N	103°27'10.815"W	267.87	310.116	0.18
7172.00	1.400	278.200	7162.24	-206.21	172.81	-207.03	771081.97	586223.81	32°36'30.775"N	103°27'10.840"W	269.68	309.853	0.17
7266.00	1.300	278.500	7256.22	-208.40	173.13	-209.22	771079.78	586224.13	32°36'30.778"N	103°27'10.866"W	271.57	309.609	0.11
7360.00	1.200	275.300	7350.20	-210.43	173.38	-211.25	771077.75	586224.38	32°36'30.781"N	103°27'10.890"W	273.29	309.377	0.13
7453.00	1.100	271.900	7443.18	-212.29	173.50	-213.11	771075.89	586224.50	32°36'30.782"N	103°27'10.911"W	274.81	309.150	0.13
7547.00	0.900	274.300	7537.16	-213.93	173.59	-214.75	771074.25	586224.59	32°36'30.783"N	103°27'10.931"W	276.14	308.949	0.22
7641.00	0.600	276.400	7631.15	-215.16	173.70	-215.98	771073.02	586224.70	32°36'30.784"N	103°27'10.945"W	277.16	308.808	0.32
7734.00	0.400	267.100	7724.15	-215.97	173.74	-216.79	771072.22	586224.73	32°36'30.785"N	103°27'10.954"W	277.81	308.709	0.23
7828.00	0.300	275.600	7818.15	-216.54	173.74	-217.36	771071.64	586224.74	32°36'30.785"N	103°27'10.961"W	278.27	308.637	0.12
7922.00	0.200	263.200	7912.15	-216.95	173.75	-217.77	771071.24	586224.75	32°36'30.785"N	103°27'10.966"W	278.59	308.585	0.12
8015.00	0.200	280.900	8005.15	-217.27	173.76	-218.09	771070.91	586224.76	32°36'30.785"N	103°27'10.970"W	278.85	308.546	0.07
8109.00	0.100	268.600	8099.15	-217.51	173.79	-218.33	771070.67	586224.79	32°36'30.785"N	103°27'10.972"W	279.05	308.519	0.11
8203.00	0.300	300.100	8193.15	-217.80	173.91	-218.63	771070.38	586224.91	32°36'30.787"N	103°27'10.976"W	279.36	308.501	0.24
8296.00	0.400	329.800	8286.15	-218.18	174.31	-219.00	771070.00	586225.31	32°36'30.791"N	103°27'10.980"W	279.90	308.518	0.22
8390.00	0.500	333.100	8380.14	-218.52	174.96	-219.35	771069.65	586225.96	32°36'30.797"N	103°27'10.984"W	280.58	308.577	0.11
8483.00	0.900	343.300	8473.14	-218.91	176.02	-219.74	771069.26	586227.02	32°36'30.808"N	103°27'10.989"W	281.55	308.696	0.45
8577.00	1.800	332.200	8567.11	-219.80	178.04	-220.64	771068.36	586229.04	32°36'30.828"N	103°27'10.999"W	283.52	308.900	0.99



Actual Wellpath Report

Conine 03-20S-35E RN No. 121H AWP 167' - 15032' Proj: 15119'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Conine 03-20S-35E RN No. 121H
Area	Lea County, NM	Well	Conine 03-20S-35E RN #121H
Field	Pearl; Bone Spring, South Conine 03-20S-35E RN #121H	Wellbore	Conine 03-20S-35E RN #121H AWB
Facility	Conine 03-20S-35E RN #121H		

WELLPATH DATA (180 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
8671.00	1.400	332.900	8661.07	-221.00	180.37	-221.86	771067.15	586231.36	32°36'30.851"N	103°27'11.013"W	285.92	309.111	0.43
8764.00	1.400	333.000	8754.04	-222.03	182.39	-222.89	771066.11	586233.39	32°36'30.871"N	103°27'11.025"W	288.00	309.293	0.00
8858.00	3.200	324.100	8847.96	-224.07	185.54	-224.95	771064.05	586236.54	32°36'30.902"N	103°27'11.049"W	291.59	309.516	1.95
8951.00	2.300	314.700	8940.86	-226.90	188.95	-227.80	771061.20	586239.95	32°36'30.936"N	103°27'11.082"W	295.96	309.675	1.08
9045.00	1.100	5.400	9034.82	-228.15	191.18	-229.05	771059.95	586242.18	32°36'30.958"N	103°27'11.096"W	298.35	309.850	1.93
9138.00	1.300	359.000	9127.80	-228.08	193.12	-228.99	771060.01	586244.12	32°36'30.978"N	103°27'11.095"W	299.55	310.143	0.26
9232.00	1.800	347.400	9221.76	-228.40	195.63	-229.33	771059.67	586246.63	32°36'31.002"N	103°27'11.099"W	301.43	310.466	0.63
9325.00	1.900	320.300	9314.72	-229.70	198.24	-230.63	771058.37	586249.24	32°36'31.028"N	103°27'11.114"W	304.12	310.681	0.94
9418.00	0.900	311.400	9407.69	-231.22	199.91	-232.16	771056.84	586250.91	32°36'31.045"N	103°27'11.132"W	306.37	310.731	1.10
9512.00	0.600	266.800	9501.68	-232.26	200.37	-233.21	771055.79	586251.37	32°36'31.050"N	103°27'11.144"W	307.47	310.669	0.67
9541.00	0.700	259.500	9530.68	-232.59	200.33	-233.54	771055.47	586251.33	32°36'31.049"N	103°27'11.148"W	307.69	310.623	0.45
9612.00	0.850	239.490	9601.67	-233.47	199.98	-234.42	771054.59	586250.98	32°36'31.046"N	103°27'11.158"W	308.13	310.468	0.43
9706.00	2.010	107.510	9695.65	-232.50	199.13	-233.44	771055.56	586250.13	32°36'31.037"N	103°27'11.147"W	306.84	310.465	2.82
9737.00	4.680	87.130	9726.60	-230.72	199.03	-231.66	771057.34	586250.03	32°36'31.036"N	103°27'11.126"W	305.42	310.668	9.30
9768.00	7.780	80.330	9757.41	-227.39	199.45	-228.33	771060.67	586250.45	32°36'31.040"N	103°27'11.087"W	303.17	311.138	10.26
9799.00	10.340	80.090	9788.02	-222.57	200.28	-223.52	771065.48	586251.28	32°36'31.048"N	103°27'11.031"W	300.12	311.861	8.26
9831.00	12.690	86.440	9819.38	-216.23	200.99	-217.18	771071.82	586251.99	32°36'31.055"N	103°27'10.956"W	295.92	312.783	8.33
9862.00	14.000	87.990	9849.54	-209.08	201.34	-210.04	771078.97	586252.33	32°36'31.057"N	103°27'10.873"W	290.95	313.788	4.38
9893.00	15.170	97.640	9879.55	-201.32	200.93	-202.27	771086.74	586251.93	32°36'31.053"N	103°27'10.782"W	285.10	314.810	8.69
9924.00	16.110	95.950	9909.40	-193.02	199.94	-193.97	771095.03	586250.94	32°36'31.042"N	103°27'10.685"W	278.57	315.869	3.37
9955.00	19.420	93.890	9938.92	-183.61	199.15	-184.55	771104.46	586250.14	32°36'31.034"N	103°27'10.575"W	271.51	317.179	10.87
9986.00	21.880	92.120	9967.92	-172.69	198.58	-173.63	771115.37	586249.58	32°36'31.027"N	103°27'10.448"W	263.79	318.835	8.19
10018.00	24.960	92.920	9997.28	-159.99	198.02	-160.93	771128.08	586249.02	32°36'31.021"N	103°27'10.299"W	255.16	320.900	9.68
10049.00	27.440	93.950	10025.10	-146.33	197.19	-147.27	771141.74	586248.19	32°36'31.011"N	103°27'10.139"W	246.11	323.247	8.13
10080.00	30.060	92.480	10052.27	-131.45	196.37	-132.38	771156.62	586247.36	32°36'31.002"N	103°27'09.966"W	236.82	326.014	8.75
10111.00	32.980	91.960	10078.70	-115.26	195.74	-116.19	771172.81	586246.74	32°36'30.994"N	103°27'09.776"W	227.63	329.307	9.46
10174.00	39.480	90.550	10129.49	-78.06	194.96	-78.98	771210.02	586245.96	32°36'30.984"N	103°27'09.341"W	210.35	337.946	10.40
10197.00	40.070	92.400	10147.17	-63.36	194.58	-64.27	771224.73	586245.58	32°36'30.979"N	103°27'09.170"W	204.92	341.720	5.75
10291.00	45.230	95.130	10216.29	0.13	190.33	-0.76	771288.24	586241.33	32°36'30.931"N	103°27'08.428"W	190.33	359.770	5.83
10322.00	47.280	95.520	10237.72	22.42	188.25	21.53	771310.53	586239.25	32°36'30.909"N	103°27'08.167"W	189.47	6.525	6.68



Actual Wellpath Report

Conine 03-20S-35E RN No. 121H AWP 167' - 15032' Proj: 15119'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Conine 03-20S-35E RN No. 121H
Area	Lea County, NM	Well	Conine 03-20S-35E RN #121H
Field	Pearl; Bone Spring, South Conine 03-20S-35E RN #121H		
Facility	Conine 03-20S-35E RN #121H	Wellbore	Conine 03-20S-35E RN #121H AWB

WELLPATH DATA (180 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
10386.00	55.690	94.530	10277.54	72.24	183.89	71.37	771360.37	586234.89	32°36'30.862"N	103°27'07.585"W	197.26	21.213	13.20
10417.00	61.490	93.690	10293.69	98.61	182.00	97.75	771386.75	586233.00	32°36'30.841"N	103°27'07.277"W	206.59	28.240	18.85
10448.00	66.810	91.460	10307.20	126.46	180.76	125.61	771414.61	586231.76	32°36'30.826"N	103°27'06.951"W	220.12	34.795	18.34
10479.00	70.990	90.010	10318.36	155.37	180.39	154.52	771443.52	586231.39	32°36'30.820"N	103°27'06.613"W	237.53	40.582	14.17
10485.00	71.540	90.570	10320.29	161.05	180.37	160.20	771449.20	586231.36	32°36'30.820"N	103°27'06.547"W	241.24	41.612	12.73
10516.00	74.120	92.300	10329.44	190.65	179.62	189.81	771478.81	586230.62	32°36'30.810"N	103°27'06.201"W	261.33	46.580	9.88
10548.00	75.930	92.420	10337.71	221.53	178.35	220.69	771509.69	586229.35	32°36'30.795"N	103°27'05.840"W	283.75	51.058	5.67
10579.00	77.010	92.890	10344.96	251.63	176.95	250.80	771539.80	586227.95	32°36'30.778"N	103°27'05.488"W	306.94	54.795	3.78
10594.00	77.140	93.420	10348.31	266.23	176.15	265.40	771554.40	586227.15	32°36'30.769"N	103°27'05.318"W	318.53	56.427	3.55
10670.00	81.560	93.790	10362.36	340.73	171.45	339.92	771628.92	586222.45	32°36'30.717"N	103°27'04.447"W	380.71	63.235	5.84
10704.00	84.450	93.030	10366.50	374.40	169.44	373.61	771662.60	586220.44	32°36'30.694"N	103°27'04.053"W	410.24	65.604	8.78
10762.00	89.780	91.940	10369.41	432.24	166.93	431.46	771720.45	586217.93	32°36'30.664"N	103°27'03.377"W	462.62	68.848	9.38
10860.00	92.890	91.160	10367.13	530.15	164.28	529.38	771818.38	586215.28	32°36'30.630"N	103°27'02.233"W	554.29	72.759	3.27
10953.00	92.680	90.480	10362.61	623.02	162.95	622.26	771911.26	586213.95	32°36'30.609"N	103°27'01.147"W	643.24	75.325	0.76
11047.00	93.390	90.090	10357.64	716.89	162.49	716.13	772005.12	586213.49	32°36'30.597"N	103°27'00.050"W	734.33	77.216	0.86
11109.00	90.180	89.790	10355.70	778.85	162.55	778.09	772067.08	586213.55	32°36'30.593"N	103°26'59.326"W	794.89	78.200	5.20
11140.00	88.430	89.510	10356.08	809.84	162.74	809.09	772098.08	586213.74	32°36'30.592"N	103°26'58.964"W	825.29	78.627	5.72
11234.00	86.270	89.000	10360.43	903.73	163.96	902.97	772191.96	586214.96	32°36'30.596"N	103°26'57.866"W	917.74	79.708	2.36
11328.00	84.160	88.680	10368.27	997.39	165.86	996.62	772285.61	586216.86	32°36'30.607"N	103°26'56.771"W	1010.33	80.551	2.27
11421.00	84.880	88.740	10377.15	1089.95	167.94	1089.17	772378.16	586218.94	32°36'30.620"N	103°26'55.689"W	1102.04	81.234	0.78
11515.00	86.170	88.040	10384.48	1183.63	170.58	1182.84	772471.83	586221.57	32°36'30.639"N	103°26'54.594"W	1195.08	81.794	1.56
11609.00	83.240	87.820	10393.16	1277.18	173.96	1276.37	772565.36	586224.95	32°36'30.664"N	103°26'53.500"W	1288.17	82.239	3.13
11702.00	85.620	88.560	10402.18	1369.70	176.88	1368.88	772657.87	586227.88	32°36'30.686"N	103°26'52.418"W	1380.26	82.637	2.68
11796.00	86.450	88.870	10408.68	1463.46	178.98	1462.63	772751.62	586229.98	32°36'30.699"N	103°26'51.322"W	1473.54	83.023	0.94
11889.00	86.060	89.520	10414.76	1556.25	180.28	1555.42	772844.41	586231.28	32°36'30.704"N	103°26'50.238"W	1565.83	83.388	0.81
11983.00	86.530	89.750	10420.83	1650.06	180.88	1649.22	772938.21	586231.88	32°36'30.702"N	103°26'49.141"W	1659.11	83.741	0.56
12077.00	87.130	89.520	10426.03	1743.91	181.48	1743.08	773032.06	586232.48	32°36'30.700"N	103°26'48.044"W	1752.50	84.056	0.68
12170.00	86.360	89.150	10431.31	1836.76	182.56	1835.92	773124.90	586233.56	32°36'30.703"N	103°26'46.958"W	1844.97	84.321	0.92
12264.00	86.940	88.820	10436.80	1930.59	184.22	1929.74	773218.73	586235.22	32°36'30.712"N	103°26'45.862"W	1938.52	84.547	0.71
12357.00	86.950	89.500	10441.76	2023.45	185.58	2022.60	773311.58	586236.58	32°36'30.718"N	103°26'44.776"W	2031.10	84.758	0.73



Actual Wellpath Report

Conline 03-20S-35E RN No. 121H AWP 167' - 15032' Proj: 15119'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Conline 03-20S-35E RN No. 121H
Area	Lea County, NM	Well	Conline 03-20S-35E RN #121H
Field	Pearl; Bone Spring, South Conline 03-20S-35E RN #121H	Wellbore	Conline 03-20S-35E RN #121H AWB
Facility	Conline 03-20S-35E RN #121H		

WELLPATH DATA (180 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
12451.00	87.590	89.880	10446.24	2117.34	186.09	2116.49	773405.47	586237.09	32°36'30.715"N	103°26'43.678"W	2124.66	84.975	0.79
12545.00	88.950	89.540	10449.07	2211.30	186.57	2210.44	773499.43	586237.56	32°36'30.712"N	103°26'42.580"W	2218.30	85.176	1.49
12638.00	90.150	89.540	10449.80	2304.29	187.31	2303.44	773592.42	586238.31	32°36'30.712"N	103°26'41.493"W	2311.04	85.351	1.29
12732.00	90.890	88.960	10448.95	2398.29	188.54	2397.42	773686.40	586239.54	32°36'30.716"N	103°26'40.394"W	2404.83	85.503	1.00
12826.00	91.140	88.950	10447.29	2492.26	190.26	2491.39	773780.37	586241.25	32°36'30.725"N	103°26'39.296"W	2498.65	85.633	0.27
12919.00	91.510	89.280	10445.14	2585.23	191.69	2584.36	773873.34	586242.69	32°36'30.732"N	103°26'38.209"W	2591.46	85.758	0.53
13013.00	91.510	89.740	10442.66	2679.20	192.50	2678.32	773967.30	586243.49	32°36'30.732"N	103°26'37.110"W	2685.23	85.889	0.49
13107.00	91.360	91.320	10440.30	2773.16	191.63	2772.28	774061.26	586242.62	32°36'30.716"N	103°26'36.012"W	2778.90	86.046	1.69
13201.00	92.250	91.190	10437.34	2867.08	189.57	2866.21	774155.19	586240.57	32°36'30.687"N	103°26'34.914"W	2872.48	86.216	0.96
13295.00	91.510	91.030	10434.26	2961.00	187.75	2960.15	774249.12	586238.75	32°36'30.662"N	103°26'33.816"W	2966.09	86.371	0.81
13388.00	91.880	91.250	10431.51	3053.93	185.90	3053.09	774342.06	586236.90	32°36'30.636"N	103°26'32.730"W	3058.74	86.516	0.46
13482.00	92.410	90.840	10427.99	3147.84	184.19	3147.00	774435.98	586235.18	32°36'30.611"N	103°26'31.632"W	3152.39	86.650	0.71
13576.00	93.140	90.980	10423.44	3241.71	182.70	3240.88	774529.85	586233.69	32°36'30.588"N	103°26'30.535"W	3246.03	86.774	0.79
13669.00	93.430	90.420	10418.11	3334.54	181.56	3333.72	774622.69	586232.56	32°36'30.569"N	103°26'29.450"W	3338.66	86.883	0.68
13763.00	90.890	91.360	10414.57	3428.45	180.10	3427.63	774716.60	586231.10	32°36'30.547"N	103°26'28.352"W	3432.36	86.992	2.88
13857.00	91.110	92.000	10412.93	3522.38	177.35	3521.58	774810.55	586228.34	32°36'30.512"N	103°26'27.255"W	3526.04	87.117	0.72
13950.00	91.970	91.690	10410.43	3615.28	174.35	3614.50	774903.47	586225.35	32°36'30.475"N	103°26'26.169"W	3618.70	87.238	0.98
14043.00	90.220	92.260	10408.65	3708.19	171.15	3707.42	774996.39	586222.15	32°36'30.435"N	103°26'25.083"W	3711.37	87.357	1.98
14137.00	89.910	90.890	10408.54	3802.13	168.56	3801.38	775090.35	586219.56	32°36'30.402"N	103°26'23.985"W	3805.12	87.461	1.49
14231.00	89.850	89.680	10408.74	3896.13	168.10	3895.38	775184.35	586219.10	32°36'30.390"N	103°26'22.886"W	3899.00	87.529	1.29
14325.00	89.510	89.720	10409.27	3990.13	168.59	3989.38	775278.34	586219.59	32°36'30.387"N	103°26'21.787"W	3992.94	87.580	0.36
14418.00	90.190	89.830	10409.51	4083.13	168.95	4082.37	775371.34	586219.95	32°36'30.382"N	103°26'20.700"W	4085.87	87.630	0.74
14512.00	90.340	89.530	10409.08	4177.12	169.48	4176.37	775465.34	586220.48	32°36'30.380"N	103°26'19.601"W	4179.81	87.676	0.36
14606.00	90.590	88.640	10408.31	4271.11	170.98	4270.36	775559.32	586221.98	32°36'30.387"N	103°26'18.502"W	4273.78	87.707	0.98
14700.00	90.150	88.750	10407.71	4365.10	173.12	4364.33	775653.29	586224.12	32°36'30.400"N	103°26'17.404"W	4367.76	87.728	0.48
14793.00	90.220	88.780	10407.41	4458.08	175.13	4457.31	775746.27	586226.12	32°36'30.412"N	103°26'16.317"W	4460.75	87.750	0.08
14887.00	91.260	88.920	10406.19	4552.06	177.01	4551.28	775840.24	586228.01	32°36'30.423"N	103°26'15.218"W	4554.72	87.773	1.12
14981.00	92.280	88.830	10403.29	4646.01	178.86	4645.21	775934.17	586229.86	32°36'30.434"N	103°26'14.120"W	4648.66	87.795	1.09
15032.00	92.870	88.660	10401.00	4696.95	179.97	4696.15	775985.11	586230.97	32°36'30.440"N	103°26'13.524"W	4699.60	87.805	1.20
15119.00	92.870	88.660	10396.64	4783.82	182.00	4783.02	776071.98	586233.00	32°36'30.453"N	103°26'12.509"W	4786.48	87.821	0.00

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Conine 03-20S-35E RN #121H FPP	10363.80	185.00	68.00	771357.00	586236.00	32°36'30.873"N	103°27'07.624"W	point
Conine 03-20S-35E RN #121H PBHL Rev-2	10394.00	207.00	4783.04	776072.00	586258.00	32°36'30.701"N	103°26'12.506"W	point

WELLPATH COMPOSITION - Ref Wellbore: Conine 03-20S-35E RN #121H AWB Ref Wellpath: Conine 03-20S-35E RN No. 121H AWP 167' - 15032' Proj: 15119'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
28.50	9541.00	ISCWSA MWD, Rev. 3 (Standard)	01_Phoenix MWD <167'-9541'>	Conine 03-20S-35E RN #121H AWB
9541.00	10197.00	NaviTrak (Standard)	8-3/4 BHI MWD 9612'- 10197'	Conine 03-20S-35E RN #121H AWB
10197.00	10516.00	Unknown Tool (Standard)	8-3/4 BHI MWD 10291' - 10516'	Conine 03-20S-35E RN #121H AWB
10516.00	15032.00	NaviTrak (Standard)	8-3/4 BHI MWD 10548' - 15032'	Conine 03-20S-35E RN #121H AWB
15032.00	15119.00	Blind Drilling (std)	Projection to bit	Conine 03-20S-35E RN #121H AWB



Actual Wellpath Report

Conine 03-20S-35E RN No. 121H AWP 167' - 15032' Proj: 15119'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Conine 03-20S-35E RN No. 121H
Area	Lea County, NM	Well	Conine 03-20S-35E RN #121H
Field	Pearl; Bone Spring, South Conine 03-20S-35E RN #121H	Wellbore	Conine 03-20S-35E RN #121H AWB
Facility	Conine 03-20S-35E RN #121H		

COMMENTS

Wellpath general comments

Well: Conine 03-20S-35E RN No. 121H
Field: Pearl; Bone Spring, South
Rig: Patterson 809
Location: Lea Co., NM
API: 30-025-42719-00
Latitude: 32° 36' 29.048" N
Longitude: 103° 27' 08.437" W
DF Elevation: 3714.5 feet
GL Elevation: 3686 feet
Proposed Direction: 89.73°
PBHL: 15119 feet
Duration: 10/15/2015-10/27/2015
FSE's: B. Bartram, D. Gonzales
SO#: 7563841
8-3/4 BHI MWD 9612' - 10197'
8-3/4 BHI MWD 10291' - 10516'
8-3/4 BHI MWD 10548' - 15032'
Projection to TD: 15119'