

NOE 23 000

AUG 08 2018

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Clearance Report
 Strong Fee 14-24S-33E AR No. 214 Rev A.0
 Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Bulduyh
Scale	0.999979	Report Generated	24/Jul/2018 at 08:38
Convergence at slot	0.43° East	Database/Source file	WellArchitectDB/Strong_Fee_14-24S-33E_AR_No_214_Rev_A.0_CR.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North(ft)	East(ft)	Easting(US ft)	Northing(US ft)	Latitude	Longitude
Slot Location	0.00	0.00	747147.00	445856.00	32°13'23.695"N	103°32'02.904"W
Facility Reference Pt			747147.00	445856.00	32°13'23.695"N	103°32'02.904"W
Field Reference Pt			162400.30	0.00	30°59'42.846"N	105°26'33.659"W

WELLPATH DATUM			
Calculation method	Minimum Curvature	Rig: Patterson 297 (KB) to Facility Vertical Datum	3632.00ft
Horizontal Reference Pt	Slot	Rig: Patterson 297 (KB) to Mean Sea Level	3632.00ft
Vertical Reference Pt	Rig: Patterson 297 (KB)	Rig: Patterson 297 (KB) to Ground Level at Slot (Strong Fee 14-24S-33E AR No. 214)	29.00ft
MD Reference Pt	Rig: Patterson 297 (KB)		
Field Vertical Reference	Mean Sea Level		

POSITIONAL UNCERTAINTY CALCULATION SETTINGS					
Ellipse Confidence Limit	2.00 Std Dev	Ellipse Start MD	29.00ft	Surface Position Uncertainty	Included
Declination	8.91° East of TN	Dip Angle	80.03°	Mag Field Strength	47905 nT
Slot Surface Uncertainty @1SD		Horizontal	0.000ft	Vertical	0.000ft
Facility Surface Uncertainty @1SD		Horizontal	3.300ft	Vertical	3.000ft
Positional Uncertainty values in the WELLPATH DATA table are the projection of the ellipsoid of uncertainty onto the vertical and horizontal planes					



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Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
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Facility	Strong Fee 14-24S-33E AR No. 214		

ANTI-COLLISION RULE			
Rule Name	Matador 2.0 Sigma - 1.8 SF	Rule Based On	Ratio
Plane of Rule	Closest Approach	Threshold Value	1.80
Include Casing & Hole Size	yes	Apply Cone of Safety	no

SURVEY PROGRAM - Ref Wellbore: Strong Fee 14-24S-33E AR No. 214 Ref Wellpath: Strong Fee 14-24S-33E AR No. 214 Rev A.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
29.00	1395.00	BHI NaviTrak (Standard)		Strong Fee 14-24S-33E AR No. 214
1395.00	2500.00	BHI NaviTrak (Standard)		Strong Fee 14-24S-33E AR No. 214
2500.00	12862.00	BHI NaviTrak (Standard)		Strong Fee 14-24S-33E AR No. 214
12862.00	17730.21	BHI NaviTrak (Standard)		Strong Fee 14-24S-33E AR No. 214

CALCULATION RANGE & CUTOFF		
From: 29.00ft MD	To: 17064.78ft MD	C-C Cutoff: (none)

OFFSET WELL CLEARANCE SUMMARY (4 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane										
Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio		
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from Status
[offset] Tyrell Fee Pad	[offset] Tyrell Fee No. 001H	[offset] Tyrell Fee No. 001H	[offset] Tyrell Fee No. 001H	[offset] Tyrell Fee No. 001H awp 100' - 15474.3' Proj: 15475'	6850.08	87.33	16729.00	6891.07	1.80	17029.00 PASS
[offset] Tyrell Fee Pad	[offset] Tyrell Fee No. 002H	[offset] Tyrell Fee No. 002H	[offset] Tyrell Fee No. 002H	[offset] Tyrell Fee No. 002H awp 100' - 13637' Proj: 13810'	8588.14	90.62	16529.00	8668.19	1.87	17064.78 PASS
[offset] Leo Thorsness 13-24S-33E AR 211H	[offset] Leo Thorsness 13-24S-33E AR 211H	[offset] Leo Thorsness 13-24S-33E AR 211H	[offset] Leo Thorsness 13-24S-33E AR 211H	[offset] Leo Thorsness 13-24S-33E AR 211H awp 195' - 16995' Proj: 17045'	356.05	29.77	17064.78	418.62	2.17	17064.78 PASS
[offset] Ray Batty Federal Com No. 004H	[offset] Ray Batty Federal Com No. 004H	[offset] Ray Batty Federal Com No. 004H	[offset] Ray Batty Federal Com No. 004H	[offset] Ray Batty Federal Com No. 004H awp 100' - 15493' Proj: 15556'	9554.00	3646.74	9554.00	15003.92	64.35	15003.92 PASS



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Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 001H Offset Wellpath: [offset] Tyrell Fee No. 001H swp 100' - 15474.3' Proj: 15475'												
Facility: [offset] Tyrell Fee Pad		Slot: [offset] Tyrell Fee No. 001H		Well: [offset] Tyrell Fee No. 001H		Threshold Value=1.50		† = Interpolated/extrapolated station				
Ref MD [m]	Ref YVD [m]	Ref North [m]	Ref East [m]	Offset MD [m]	Offset YVD [m]	Offset North [m]	Offset East [m]	Horiz Bearing [°]	C-C Clear Dist [m]	ACR MASD [m]	Sep Ratio	ACR Status
29.00	29.00	0.00	0.00	21.70	28.70	345.61	-658.12	297.71	743.34	24.33	56.25	PASS
129.00	129.00	0.00	0.00	115.46	122.46	345.92	-658.52	297.71	743.88	24.36	56.21	PASS
229.00	229.00	0.00	0.00	216.16	223.16	346.54	-659.14	297.73	744.71	24.46	56.03	PASS
329.00	329.00	0.00	0.00	316.50	323.49	347.10	-659.71	297.75	745.47	24.64	55.69	PASS
429.00	429.00	0.00	0.00	416.63	423.62	347.51	-660.31	297.76	746.19	24.84	55.73	PASS
529.00	529.00	0.00	0.00	516.63	523.62	347.87	-660.95	297.76	746.93	25.18	54.56	PASS
629.00	629.00	0.00	0.00	617.36	624.35	348.19	-661.51	297.76	747.57	25.55	53.80	PASS
729.00	729.00	0.00	0.00	715.40	722.38	348.43	-662.22	297.75	748.32	25.98	52.95	PASS
829.00	829.00	0.00	0.00	813.73	820.71	348.65	-663.22	297.73	749.33	26.46	52.04	PASS
929.00	929.00	0.00	0.00	912.99	919.95	348.76	-664.48	297.69	750.48	26.99	51.08	PASS
1029.00	1029.00	0.00	0.00	1012.07	1019.03	348.55	-665.98	297.63	751.74	27.58	50.04	PASS
1129.00	1129.00	0.00	0.00	1109.94	1116.88	347.96	-667.89	297.52	753.19	28.20	49.00	PASS
1229.00	1229.00	0.00	0.00	1206.09	1212.99	347.35	-670.24	297.40	755.07	28.87	47.97	PASS
1329.00	1329.00	0.00	0.00	1304.79	1311.65	346.85	-672.96	297.27	757.28	29.58	46.93	PASS
1429.00	1429.00	0.00	0.00	1404.70	1411.52	346.28	-676.83	297.13	759.88	29.99	46.18	PASS
1529.00	1529.00	0.00	0.00	1505.51	1512.29	345.67	-678.72	296.99	761.86	30.41	45.67	PASS
1629.00	1629.00	0.00	0.00	1616.71	1623.47	345.36	-680.65	296.90	763.28	30.92	45.00	PASS
1729.00	1729.00	0.00	0.00	1726.00	1732.75	345.64	-680.79	296.92	763.51	31.45	44.25	PASS
1829.00	1829.00	0.00	0.00	1837.54	1844.25	347.04	-678.23	297.10	762.02	32.01	43.38	PASS
1929.00	1929.00	0.00	0.00	1940.01	1946.66	348.72	-674.93	297.32	759.90	32.57	42.60	PASS
2000.00	2000.00	0.00	0.00	2013.53	2020.12	349.67	-672.36	297.48	758.11	33.00	41.84	PASS
2029.00	2029.00	0.03	-0.07	2042.52	2049.10	350.00	-671.31	297.54	757.27	33.17	41.57	PASS
2129.00	2128.99	0.52	-1.36	2139.12	2145.64	351.09	-667.95	297.74	753.34	33.80	40.58	PASS
2229.00	2228.94	1.64	-4.27	2233.98	2240.46	351.70	-665.75	297.89	748.49	34.48	39.51	PASS
2329.00	2328.82	3.38	-8.62	2333.68	2340.16	352.02	-663.83	298.02	742.11	35.21	38.35	PASS
2429.00	2428.60	5.75	-14.99	2433.63	2440.07	352.48	-661.90	298.19	734.06	35.98	37.12	PASS
2529.00	2528.25	8.75	-22.78	2535.34	2541.76	352.92	-659.66	298.39	724.05	36.66	35.92	PASS
2629.00	2627.74	12.36	-32.20	2635.73	2642.12	353.26	-657.24	298.61	712.11	37.22	34.79	PASS
2729.00	2727.03	16.60	-43.24	2734.65	2741.00	353.55	-654.77	298.86	698.36	37.81	33.58	PASS
2829.00	2826.11	21.48	-54.89	2830.70	2837.04	353.78	-652.62	299.11	683.10	38.42	32.32	PASS



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Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 001H Offset Wellpath: [offset] Tyrell Fee No. 001H awp 100' - 15474.3' Proj: 15475'

Facility [offset] Tyrell Fee Pad		Slot [offset] Tyrell Fee No. 001H		Well [offset] Tyrell Fee No. 001H		Threshold Value=1.00		† = Interpolated/extrapolated station									
Ref MD [m]	Ref TVD [m]	Ref North [m]	Ref East [m]	Offset MD [m]	Offset TVD [m]	Offset North [m]	Offset East [m]	Horiz Bearing [°]	C-C Clear Dist [m]	ACR MASD [m]	Sep Ratio	ACR Status					
2929.00†	2924.93	26.93	-70.16	2925.52	2931.85	353.77	-651.26	299.36	666.74	39.05	31.03	PASS					
2961.54	2957.03	28.85	-75.15	2957.55	2963.87	353.76	-650.88	299.44	661.13	39.27	30.60	PASS					
3029.00†	3023.55	32.88	-85.67	3023.71	3030.03	353.77	-650.10	299.62	649.30	39.71	29.71	PASS					
3129.00†	3122.14	38.87	-101.26	3120.58	3126.90	353.93	-648.98	299.91	631.88	40.39	28.43	PASS					
3229.00†	3220.74	44.86	-116.86	3215.81	3221.92	354.20	-648.35	300.20	614.96	41.09	27.19	PASS					
3329.00†	3319.33	50.84	-132.45	3313.75	3320.06	354.52	-647.97	300.50	598.32	41.84	25.97	PASS					
3429.00†	3417.93	56.83	-148.04	3411.25	3417.56	355.14	-647.57	300.85	581.82	42.61	24.80	PASS					
3529.00†	3516.52	62.81	-163.64	3508.19	3514.49	356.18	-647.18	301.25	565.58	43.41	23.65	PASS					
3629.00†	3615.12	68.80	-179.23	3605.09	3611.38	357.54	-646.96	301.69	549.69	44.24	22.56	PASS					
3729.00†	3713.71	74.79	-194.82	3706.81	3713.09	358.88	-646.81	302.16	533.69	45.12	21.47	PASS					
3829.00†	3812.31	80.77	-210.42	3810.05	3816.32	359.70	-645.70	302.65	517.00	46.03	20.38	PASS					
3929.00†	3910.90	86.76	-226.01	3913.70	3919.96	359.32	-644.29	303.09	499.33	46.95	19.29	PASS					
4029.00†	4009.50	92.74	-241.61	4013.12	4019.35	357.59	-643.12	303.41	481.09	47.87	18.23	PASS					
4129.00†	4108.09	98.73	-257.20	4110.96	4117.15	354.76	-642.55	303.60	462.74	48.79	17.20	PASS					
4229.00†	4206.68	104.72	-272.79	4203.47	4209.83	352.16	-642.86	303.77	445.17	49.72	16.23	PASS					
4329.00†	4305.28	110.70	-288.39	4299.52	4305.64	349.93	-643.91	303.94	428.52	50.68	15.33	PASS					
4429.00†	4403.88	116.69	-303.98	4396.70	4402.80	347.92	-645.37	304.11	412.33	51.66	14.46	PASS					
4529.00†	4502.47	122.67	-319.58	4496.62	4502.68	345.95	-646.85	304.30	396.19	52.68	13.63	PASS					
4629.00†	4601.07	128.66	-335.17	4595.95	4601.99	344.10	-647.94	304.56	379.79	53.71	12.81	PASS					
4729.00†	4699.68	134.65	-350.76	4695.76	4701.77	342.48	-648.58	304.81	363.16	54.75	12.01	PASS					
4829.00†	4798.26	140.63	-366.36	4794.17	4800.18	340.88	-649.00	305.32	346.39	55.82	11.24	PASS					
4929.00†	4896.85	146.62	-381.95	4891.08	4897.08	339.84	-649.35	305.85	329.91	56.89	10.50	PASS					
5029.00†	4995.45	152.60	-397.55	4991.62	4997.63	339.38	-649.28	306.57	313.46	58.00	9.78	PASS					
5129.00†	5094.04	158.59	-413.14	5090.05	5096.04	338.80	-648.83	307.40	296.70	59.13	9.08	PASS					
5229.00†	5192.64	164.59	-428.73	5188.88	5194.97	338.08	-648.46	308.30	279.88	60.11	8.41	PASS					
5329.00†	5291.23	170.56	-444.33	5285.58	5291.58	337.46	-648.30	309.29	263.55	61.27	7.76	PASS					
5429.00†	5389.83	176.55	-459.92	5383.10	5389.09	337.32	-648.56	310.44	247.85	62.47	7.16	PASS					
5529.00†	5488.42	182.53	-475.52	5481.41	5487.40	337.32	-649.06	311.73	232.55	63.70	6.59	PASS					
5629.00†	5587.02	188.52	-491.11	5579.28	5585.27	337.35	-649.83	313.16	217.59	64.96	6.04	PASS					
5729.00†	5685.61	194.61	-506.70	5678.19	5684.18	337.39	-650.91	314.74	203.01	66.26	5.53	PASS					



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Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
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CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 001H Offset Wellpath: [offset] Tyrell Fee No. 001H awp 100' - 15474.3' Proj: 15475'

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5829.001	5784.21	200.49	-522.30	5776.50	5782.48	337.52	-651.84	316.61	188.58	67.60	5.03	PASS
5829.001	5882.80	206.48	-537.89	5875.39	5881.36	337.98	-652.69	318.88	174.56	69.02	4.56	PASS
6029.001	5981.40	212.48	-553.49	5973.97	5979.94	338.79	-653.00	321.77	160.82	70.53	4.11	PASS
6129.001	6079.99	218.45	-569.08	6072.72	6078.68	339.53	-653.52	325.11	147.62	72.15	3.69	PASS
6229.001	6178.59	224.44	-584.67	6171.63	6177.69	340.26	-653.90	329.13	134.94	73.99	3.29	PASS
6329.001	6277.18	230.42	-600.27	6270.39	6276.35	340.95	-654.05	334.06	122.92	75.79	2.92	PASS
6429.001	6375.78	236.41	-615.86	6369.21	6375.16	341.62	-654.07	340.04	111.94	77.87	2.59	PASS
6529.001	6474.37	242.39	-631.46	6467.83	6473.78	342.16	-654.08	347.23	102.31	80.11	2.30	PASS
6629.001	6572.97	248.38	-647.05	6566.33	6572.29	342.83	-653.99	355.80	94.70	82.42	2.07	PASS
6729.001	6671.56	254.36	-662.64	6664.98	6670.91	343.58	-653.92	5.59	89.63	84.62	1.91	PASS
6829.001	6770.16	260.35	-678.24	6763.57	6769.52	344.27	-653.82	16.22	87.40	86.48	1.82	PASS
6850.081	6790.94	261.61	-681.52	6784.40	6790.34	344.42	-653.80	18.51	87.33	86.81	1.81	PASS
6891.071	6831.35	264.07	-687.92	6824.78	6830.73	344.72	-653.76	22.95	87.59	87.38	1.80	PASS
6929.001	6868.75	266.34	-693.83	6862.21	6868.15	344.99	-653.72	27.02	88.30	87.82	1.81	PASS
7029.001	6967.35	272.32	-709.42	6960.74	6966.68	345.71	-653.60	37.26	82.21	88.84	1.87	PASS
7062.12	7000.00	274.30	-714.58	6993.35	6999.29	345.99	-653.56	40.41	94.15	88.82	1.91	PASS
7129.001	7065.95	278.66	-724.85	7059.37	7065.31	346.55	-653.48	46.43	98.51	89.10	1.99	PASS
7219.28	7154.97	285.68	-738.16	7148.25	7154.18	347.24	-653.32	54.03	104.85	89.33	2.11	PASS
7229.001	7164.55	286.48	-739.56	7157.79	7163.73	347.33	-653.29	54.80	105.58	89.35	2.13	PASS
7329.001	7263.15	294.93	-763.97	7256.30	7262.23	348.28	-653.89	62.17	114.30	89.56	2.30	PASS
7429.001	7361.74	303.39	-768.37	7354.84	7360.76	349.13	-652.46	68.47	124.61	89.83	2.50	PASS
7529.001	7460.34	311.85	-782.77	7453.47	7459.39	349.95	-651.92	73.77	136.29	90.23	2.72	PASS
7629.001	7558.93	320.31	-797.18	7552.34	7558.26	350.48	-651.47	78.30	148.80	90.75	2.95	PASS
7729.001	7657.53	328.76	-811.58	7650.17	7656.08	350.59	-650.98	82.26	162.09	91.36	3.20	PASS
7829.001	7756.12	337.22	-825.98	7748.78	7754.68	350.86	-649.64	85.68	176.91	92.05	3.48	PASS
7929.001	7854.72	345.68	-840.39	7843.91	7849.79	351.72	-647.37	88.21	193.17	92.88	3.75	PASS
8029.001	7953.31	354.13	-854.79	7942.11	7947.96	352.51	-644.86	90.44	210.01	93.81	4.03	PASS
8119.98	8043.01	361.83	-867.89	8031.26	8037.07	353.26	-642.58	92.18	225.56	94.71	4.29	PASS
8129.001	8051.91	362.59	-869.19	8040.03	8045.83	353.34	-642.34	92.33	227.12	94.80	4.32	PASS
8229.001	8150.67	370.83	-882.71	8137.36	8143.12	354.62	-639.46	93.74	243.98	95.84	4.59	PASS



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**BAKER
HUGHES**
a GE company



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Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 001H Offset Wellpath: [offset] Tyrell Fee No. 001H awp 100' - 15474.3' Proj: 15475'													
Facility	[offset] Tyrell Fee No. 001H	Slot	[offset] Tyrell Fee No. 001H	Well	[offset] Tyrell Fee No. 001H	Threshold Value	1.50	† = Interpolated/extrapolated station					
Ref MD [m]	Ref TVD [m]	Ref North [m]	Ref East [m]	Offset MD [m]	Offset TVD [m]	Offset North [m]	Offset East [m]	Horiz Bearing [°]	C-C Clear Dist [m]	ACR MASD [m]	Sep Ratio	ACR Status	
8329.00†	8249.69	377.60	-894.75	8235.40	8241.08	356.44	-636.11	94.68	259.65	96.95	4.83	PASS	
8429.00†	8348.94	383.79	-905.30	8334.81	8340.40	358.91	-632.66	95.21	273.90	98.14	5.03	PASS	
8529.00†	8448.38	389.10	-914.35	8434.23	8439.73	361.38	-629.43	95.56	286.39	99.35	5.20	PASS	
8629.00†	8548.00	393.54	-921.90	8533.88	8539.31	363.55	-626.12	95.79	297.43	100.56	5.33	PASS	
8729.00†	8647.78	387.09	-927.05	8634.99	8640.36	365.39	-623.33	95.94	306.36	101.80	5.43	PASS	
8829.00†	8747.81	399.76	-932.50	8734.95	8740.27	367.00	-620.71	96.00	313.60	103.01	5.49	PASS	
8929.00†	8847.55	401.55	-935.55	8836.20	8841.48	368.71	-618.38	95.91	318.93	104.26	5.51	PASS	
9029.00†	8947.53	402.46	-937.09	8936.97	8942.22	370.53	-616.44	95.69	322.28	105.50	5.51	PASS	
9081.47	9000.00	402.58	-937.30	8989.43	8994.66	371.50	-615.48	95.52	323.36	106.13	5.49	PASS	
9129.00†	9047.63	402.58	-937.30	9037.04	9042.26	372.35	-614.61	95.35	324.14	106.70	5.48	PASS	
9229.00†	9147.53	402.58	-937.30	9138.13	9143.31	373.81	-612.92	95.07	325.68	107.90	5.44	PASS	
9329.00†	9247.53	402.58	-937.30	9239.19	9244.36	374.82	-611.82	94.88	326.68	109.09	5.40	PASS	
9429.00†	9347.53	402.58	-937.30	9337.74	9342.90	376.14	-610.56	94.63	327.84	110.24	5.36	PASS	
9529.00†	9447.53	402.58	-937.30	9437.05	9442.16	378.41	-608.75	94.21	329.48	111.43	5.33	PASS	
9629.00†	9547.53	402.58	-937.30	9539.24	9544.30	381.45	-607.14	93.66	330.85	112.70	5.29	PASS	
9729.00†	9647.53	402.58	-937.30	9641.79	9646.73	386.41	-606.30	92.80	331.40	114.02	5.24	PASS	
9829.00†	9747.53	402.58	-937.30	9745.36	9750.15	391.77	-606.32	91.87	331.16	115.36	5.17	PASS	
9829.00†	9847.53	402.58	-937.30	9846.59	9851.29	396.00	-607.31	91.14	330.08	116.63	5.10	PASS	
10029.00†	9947.53	402.58	-937.30	9942.24	9946.92	397.29	-607.91	90.92	329.43	117.75	5.04	PASS	
10129.00†	10047.53	402.58	-937.30	10043.44	10048.13	398.99	-607.82	90.97	329.72	118.82	5.00	PASS	
10229.00†	10147.53	402.58	-937.30	10144.61	10149.29	398.18	-608.08	91.11	329.29	120.06	4.94	PASS	
10329.00†	10247.53	402.58	-937.30	10245.12	10249.79	395.26	-608.71	91.28	328.67	121.19	4.89	PASS	
10429.00†	10347.53	402.58	-937.30	10342.26	10346.93	394.29	-609.03	91.45	328.36	122.28	4.84	PASS	
10529.00†	10447.53	402.58	-937.30	10443.66	10447.78	385.40	-610.48	93.01	327.27	123.24	4.79	PASS	
10629.00†	10547.53	402.58	-937.30	10526.31	10527.43	363.54	-609.88	96.80	330.34	123.49	4.82	PASS	
10729.00†	10647.53	402.58	-937.30	10607.01	10602.53	334.24	-607.32	101.70	339.97	123.32	4.97	PASS	
10829.00†	10747.53	402.58	-937.30	10681.25	10668.23	299.93	-604.25	107.13	357.42	122.51	5.26	PASS	
10829.00†	10847.53	402.58	-937.30	10802.27	10766.14	229.60	-609.86	117.85	379.16	123.86	5.52	PASS	
11029.00†	10947.53	402.58	-937.30	10845.75	10796.84	199.61	-616.70	122.34	408.27	120.97	6.08	PASS	
11129.00†	11047.53	402.58	-937.30	10876.48	10817.54	174.72	-621.34	125.80	452.38	116.73	6.99	PASS	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 001H Offset Wellpath: [offset] Tyrell Fee No. 001H awp 100' - 15474.3' Proj: 15475'

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11229.00	11147.53	402.58	-937.30	10903.90	10832.06	154.08	-624.53	128.47	509.01	112.19	8.18	PASS
11329.00	11247.53	402.58	-937.30	10924.45	10842.68	136.64	-626.73	130.57	575.40	108.08	9.60	PASS
11429.00	11347.53	402.58	-937.30	10942.62	10851.22	120.69	-628.46	132.39	648.97	104.75	11.17	PASS
11529.00	11447.53	402.58	-937.30	10957.85	10857.76	107.01	-629.81	133.87	727.83	102.12	12.85	PASS
11629.00	11547.53	402.58	-937.30	10970.72	10862.81	95.23	-630.82	135.09	810.86	100.10	14.61	PASS
11729.00	11647.53	402.58	-937.30	10981.59	10866.74	85.13	-631.85	136.10	896.49	98.58	16.40	PASS
11829.00	11747.53	402.58	-937.30	10991.20	10869.94	76.11	-632.68	136.98	984.65	97.49	18.22	PASS
11834.31	11752.84	402.58	-937.30	10991.67	10870.09	75.66	-632.73	137.03	989.38	97.44	18.32	PASS
11929.00	11847.10	394.77	-937.24	11001.51	10873.10	66.33	-633.62	137.25	1071.79	96.61	20.01	PASS
12029.00	11943.80	369.82	-937.04	11014.33	10876.61	54.07	-634.88	136.26	1153.22	95.87	21.70	PASS
12129.00	12034.71	326.45	-936.72	11027.71	10879.78	41.14	-636.17	133.71	1227.49	95.24	23.25	PASS
12229.00	12117.04	271.93	-936.27	11042.21	10882.63	26.98	-637.43	129.34	1293.48	94.78	24.62	PASS
12329.00	12188.32	201.97	-935.72	11057.08	10884.89	12.32	-638.54	122.54	1350.26	94.56	25.76	PASS
12429.00	12246.36	120.70	-935.08	11072.28	10886.46	-2.75	-639.51	112.67	1397.11	94.63	26.63	PASS
12529.00	12289.40	30.58	-934.37	11081.01	10887.37	-21.44	-640.50	100.04	1439.45	95.08	27.20	PASS
12629.00	12316.15	-65.64	-933.61	11126.66	10887.38	-57.05	-642.03	88.31	1458.24	95.94	27.42	PASS
12634.31	12317.09	-70.87	-933.57	11131.71	10887.31	-62.09	-642.23	88.27	1459.19	95.98	27.43	PASS
12729.00	12328.89	-164.78	-932.83	11224.85	10885.91	-155.16	-645.86	88.08	1471.27	96.36	27.54	PASS
12773.48	12331.20	-209.19	-932.48	11276.87	10885.36	-207.15	-647.59	89.59	1473.65	96.66	27.50	PASS
12829.00	12332.80	-264.89	-932.05	11340.83	10885.12	-270.78	-649.32	81.23	1475.04	96.87	27.44	PASS
12929.00	12335.68	-364.64	-931.26	11473.53	10886.06	-403.72	-653.19	98.00	1476.57	97.62	27.28	PASS
13029.00	12338.56	-464.60	-930.47	11589.58	10889.34	-519.66	-656.82	101.38	1475.85	98.32	27.08	PASS
13129.00	12341.44	-564.56	-929.69	11687.71	10892.51	-617.71	-659.48	101.13	1474.86	98.82	26.92	PASS
13229.00	12344.32	-664.51	-928.90	11793.05	10896.12	-722.94	-662.31	102.36	1473.69	99.54	26.71	PASS
13329.00	12347.20	-764.47	-928.11	11889.11	10898.88	-806.94	-664.24	99.76	1472.86	100.01	26.67	PASS
13429.00	12350.08	-864.42	-927.33	11977.75	10901.52	-907.53	-666.12	99.37	1472.56	100.76	26.36	PASS
13529.00	12352.96	-964.38	-926.54	12081.58	10904.35	-1011.30	-668.10	100.29	1472.23	101.69	26.11	PASS
13629.00	12355.84	-1064.33	-925.75	12208.23	10908.99	-1137.86	-669.60	106.02	1471.19	103.18	25.72	PASS
13729.00	12358.72	-1164.29	-924.97	12310.99	10914.92	-1240.44	-669.76	106.62	1468.16	104.30	25.39	PASS
13829.00	12361.60	-1264.24	-924.18	12394.02	10916.02	-1313.40	-670.43	100.96	1466.63	104.87	25.22	PASS



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyroll Fee No. 001H Offset Wellpath: [offset] Tyroll Fee No. 001H awp 100' - 15474.3' Proj: 15475'													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13929.00	12364.48	-1364.20	-923.39	12454.69	10919.51	-1384.05	-671.34	94.50	1466.91	105.49	25.08	PASS	
14029.00	12367.35	-1464.15	-922.61	12538.18	10920.16	-1467.53	-671.47	90.77	1468.83	106.44	24.89	PASS	
14129.00	12370.23	-1564.11	-921.82	12626.04	10920.22	-1555.38	-670.17	88.01	1471.72	107.55	24.68	PASS	
14229.00	12373.11	-1664.07	-921.03	12714.20	10919.65	-1643.52	-668.33	85.35	1475.41	108.75	24.47	PASS	
14329.00	12376.89	-1764.02	-920.24	12807.88	10918.67	-1736.85	-665.51	83.84	1479.76	110.12	24.23	PASS	
14429.00	12378.87	-1863.98	-919.46	12914.79	10917.72	-1843.92	-660.03	85.58	1484.14	111.84	23.93	PASS	
14529.00	12381.75	-1963.93	-918.67	13034.51	10917.84	-1963.52	-655.08	89.91	1487.45	113.85	23.56	PASS	
14572.36	12383.00	-2007.27	-918.33	13077.10	10918.03	-2006.10	-653.88	89.75	1488.64	114.56	23.43	PASS	
14615.47	12384.00	-2050.37	-917.99	13119.18	10918.19	-2048.17	-652.75	89.52	1489.61	115.26	23.31	PASS	
14629.00	12384.24	-2093.90	-917.88	13131.78	10918.23	-2060.77	-652.41	89.33	1489.85	115.48	23.27	PASS	
14729.00	12385.99	-2163.88	-917.10	13277.82	10919.45	-2206.73	-648.26	99.06	1491.59	118.14	22.77	PASS	
14829.00	12387.74	-2263.86	-916.31	13404.92	10925.33	-2333.67	-646.23	104.49	1488.77	120.51	22.28	PASS	
14929.00	12389.49	-2363.84	-915.52	13508.30	10930.96	-2436.87	-644.03	105.06	1485.38	122.48	21.87	PASS	
15029.00	12391.24	-2463.82	-914.74	13583.23	10934.24	-2511.73	-643.10	100.00	1482.88	123.85	21.59	PASS	
15072.44	12392.00	-2507.28	-914.40	13622.97	10935.49	-2551.44	-642.98	99.26	1482.24	124.60	21.48	PASS	
15078.42	12392.11	-2513.24	-914.35	13628.74	10935.68	-2557.22	-642.92	99.20	1482.16	124.71	21.43	PASS	
15129.00	12393.07	-2563.80	-913.95	13677.61	10937.21	-2606.06	-642.44	98.85	1481.57	125.65	21.26	PASS	
15229.00	12394.98	-2663.78	-913.16	13751.00	10938.86	-2679.42	-641.81	93.30	1481.28	127.08	21.02	PASS	
15329.00	12396.89	-2763.76	-912.38	13832.45	10939.02	-2760.87	-642.06	89.39	1482.72	128.68	20.78	PASS	
15429.00	12398.80	-2863.74	-911.59	13924.80	10938.46	-2853.02	-642.45	87.72	1484.97	130.50	20.52	PASS	
15529.00	12400.70	-2963.72	-910.80	14024.44	10937.84	-2952.85	-641.40	87.69	1487.50	132.55	20.23	PASS	
15629.00	12402.61	-3063.70	-910.02	14124.70	10937.62	-3053.08	-638.93	87.76	1489.90	134.71	19.94	PASS	
15729.00	12404.52	-3163.68	-909.23	14218.66	10937.39	-3146.88	-635.67	86.51	1492.50	136.82	19.66	PASS	
15829.00	12406.43	-3263.65	-908.44	14333.14	10937.25	-3261.36	-630.78	89.53	1495.19	139.43	19.33	PASS	
15929.00	12408.33	-3363.63	-907.66	14420.48	10937.64	-3349.60	-627.12	86.83	1497.28	141.53	19.07	PASS	
16029.00	12410.24	-3463.61	-906.87	14528.58	10937.43	-3456.61	-622.30	88.59	1500.07	144.10	18.76	PASS	
16129.00	12412.15	-3563.59	-906.08	14640.48	10938.07	-3568.46	-619.00	90.97	1501.78	146.72	18.45	PASS	
16229.00	12414.06	-3663.57	-905.29	14712.16	10938.04	-3640.10	-616.85	85.35	1504.12	148.55	18.25	PASS	
16329.00	12415.96	-3763.55	-904.51	14804.27	10936.95	-3732.11	-612.69	83.85	1507.86	150.89	18.01	PASS	
16429.00	12417.87	-3863.53	-903.72	14961.75	10936.93	-3889.20	-602.18	94.87	1509.59	154.81	17.58	PASS	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 001H Offset Wellpath: [offset] Tyrell Fee No. 001H awp 100' - 15474.3' Proj: 15475'

Facility		[offset] Tyrell Fee Pad	Slot		[offset] Tyrell Fee No. 001H	Well		[offset] Tyrell Fee No. 001H	Threshold Value=1.80					† = Interpolated/extrapolated station		
Ref MD		Ref TVD		Ref North	Ref East	Offset MD		Offset TVD	Offset North	Offset East	Horiz Bearing	C-C Clear Dist	ACR MASD	Sep Ratio	ACR Status	
[ft]		[ft]		[ft]	[ft]	[ft]		[ft]	[ft]	[ft]	[°]	[ft]	[ft]			
16529.00†		12419.78		-3963.51	-902.93	15064.08		10942.56	-3991.14	-593.90	95.11	1509.45	157.84	17.24	PASS	
16629.00†		12421.69		-4063.48	-902.15	15167.57		10946.49	-4094.12	-584.44	95.51	1509.33	160.93	16.90	PASS	
16729.00†		12423.59		-4163.46	-901.36	15263.38		10950.65	-4189.33	-574.57	94.53	1508.98	163.97	16.59	PASS	
16829.00†		12425.50		-4263.44	-900.57	15350.43		10953.95	-4275.78	-564.91	92.11	1509.40	166.87	16.30	PASS	
16929.00†		12427.41		-4363.42	-899.78	15442.89		10956.80	-4367.39	-554.35	90.86	1510.64	170.00	16.01	PASS	
17029.00†		12429.32		-4463.40	-899.00	15475.00		10957.76	-4399.47	-550.64	79.60	1513.58	171.08	15.94	PASS	
17064.78		12430.00		-4499.18	-898.72	15475.00		10957.76	-4399.47	-550.64	74.02	1516.11	171.06	15.97	PASS	

POSITIONAL UNCERTAINTY - Offset Wellbore: [offset] Tyrell Fee No. 001H Offset Wellpath: [offset] Tyrell Fee No. 001H awp 100' - 15474.3' Proj: 15475'

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

HOLE & CASING SECTIONS - Offset Wellbore: [offset] Tyrell Fee No. 001H Offset Wellpath: [offset] Tyrell Fee No. 001H awp 100' - 15474.3' Proj: 15475'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.375in Casing	18.00	1398.00	1380.00	14.00	1393.83	210.68	-401.19	210.90	-406.53
9.625in Casing	18.00	5125.00	5107.00	14.00	5120.00	210.68	-401.19	208.54	-398.32
5.5in Casing	18.00	15475.00	15457.00	14.00	10946.76	210.68	-401.19	-1235.62	-368.43

WELLPATH COMPOSITION - Offset Wellbore: [offset] Tyrell Fee No. 001H Offset Wellpath: [offset] Tyrell Fee No. 001H awp 100' - 15474.3' Proj: 15475'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	15474.30	ISCWSA MWD, Rev. 4 (Standard)	Imported TDS MWD surveys from 100' - 15474.3'	[offset] Tyrell Fee No. 001H
15474.30	15475.00	Blind Drilling (std)	Projection to bit	[offset] Tyrell Fee No. 001H



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

OFFSET WELLPATH REFERENCE - Offset Wellbore: [offset] Tyroll Fee No. 001H Offset Wellpath: [offset] Tyroll Fee No. 001H awp 100' - 15474.3' Proj: 15475'	
MD Reference: Rig: Silver Oak #12 (KB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	18.00ft



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 002H Offset Wellpath: [offset] Tyrell Fee No. 002H awp 100' - 13637' Proj: 13610'

Facility [offset] Tyrell Fee Pad	Slot [offset] Tyrell Fee No. 002H	Well [offset] Tyrell Fee No. 002H	Threshold Value=1.50 † = Interpolated/extrapolated station											
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status		
29.00	29.00	0.00	0.00	29.85	28.85	343.91	-988.12	289.19	1046.26	24.32	79.20	PASS		
129.00†	129.00	0.00	0.00	125.72	124.72	344.10	-988.26	289.20	1046.46	24.35	79.13	PASS		
229.00†	229.00	0.00	0.00	221.87	220.87	344.55	-988.76	289.21	1047.10	24.43	78.92	PASS		
329.00†	329.00	0.00	0.00	322.55	321.54	344.86	-989.42	289.22	1047.82	24.56	78.53	PASS		
429.00†	429.00	0.00	0.00	421.74	420.73	345.13	-990.14	289.22	1048.60	24.76	77.99	PASS		
529.00†	529.00	0.00	0.00	523.38	522.37	345.43	-990.80	289.22	1049.31	24.98	77.28	PASS		
629.00†	629.00	0.00	0.00	625.17	624.16	345.66	-991.30	289.22	1049.85	25.27	76.42	PASS		
729.00†	729.00	0.00	0.00	725.85	724.63	345.88	-991.67	289.23	1050.27	25.61	75.43	PASS		
829.00†	829.00	0.00	0.00	824.64	823.62	346.07	-992.10	289.23	1050.74	25.98	74.35	PASS		
929.00†	929.00	0.00	0.00	924.32	923.30	346.35	-992.55	289.24	1051.27	26.40	73.18	PASS		
1029.00†	1029.00	0.00	0.00	1021.50	1020.48	346.73	-993.03	289.25	1051.86	26.86	71.95	PASS		
1129.00†	1129.00	0.00	0.00	1113.36	1112.33	346.94	-994.21	289.24	1053.14	27.34	70.74	PASS		
1229.00†	1229.00	0.00	0.00	1218.36	1217.32	347.08	-995.62	289.22	1054.45	27.90	69.39	PASS		
1329.00†	1329.00	0.00	0.00	1318.24	1317.20	347.22	-996.71	289.21	1055.52	28.47	68.03	PASS		
1429.00†	1429.00	0.00	0.00	1414.85	1413.84	347.56	-997.93	289.20	1056.83	28.72	67.14	PASS		
1529.00†	1529.00	0.00	0.00	1516.20	1515.14	348.09	-999.23	289.21	1058.21	28.98	66.62	PASS		
1629.00†	1629.00	0.00	0.00	1619.37	1618.30	348.26	-1000.44	289.19	1059.38	29.29	65.99	PASS		
1729.00†	1729.00	0.00	0.00	1724.41	1723.33	348.11	-1001.40	289.17	1060.20	29.61	65.32	PASS		
1829.00†	1829.00	0.00	0.00	1836.10	1835.02	347.00	-1001.85	289.10	1060.26	29.89	64.70	PASS		
1929.00†	1929.00	0.00	0.00	1949.75	1948.68	348.23	-1000.91	289.03	1068.96	30.09	64.18	PASS		
2000.00	2000.00	0.00	0.00	2022.84	2021.73	344.74	-999.46	289.03	1057.47	30.21	63.83	PASS		
2029.00†	2029.00	0.03	-0.07	2049.25	2048.13	344.64	-998.95	289.03	1056.83	30.26	63.68	PASS		
2129.00†	2128.99	0.52	-1.36	2140.79	2139.66	344.46	-997.66	289.05	1054.06	30.48	63.06	PASS		
2229.00†	2228.94	1.64	-4.27	2235.38	2234.25	344.70	-996.90	289.07	1050.25	30.77	62.22	PASS		
2329.00†	2328.82	3.38	-8.82	2333.92	2332.78	345.01	-996.32	289.08	1044.93	31.11	61.23	PASS		
2429.00†	2428.60	5.75	-14.99	2432.02	2430.88	345.14	-995.98	289.08	1038.04	31.47	60.12	PASS		
2529.00†	2528.25	8.75	-22.78	2531.43	2530.30	345.19	-995.75	289.08	1029.50	31.72	59.14	PASS		
2629.00†	2627.74	12.36	-32.20	2631.56	2630.42	345.19	-995.51	289.06	1019.19	31.87	58.28	PASS		
2729.00†	2727.03	16.60	-43.24	2739.58	2738.44	345.04	-995.04	289.04	1006.94	32.06	57.23	PASS		
2829.00†	2826.19	21.45	-66.89	2855.63	2854.46	343.87	-992.79	288.99	991.23	32.32	55.87	PASS		



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 002H Offset Wellpath: [offset] Tyrell Fee No. 002H awp 100' - 13637' Proj 13610'

Facility: [offset] Tyrell Fee Pad Slot [offset] Tyrell Fee No. 002H Well [offset] Tyrell Fee No. 002H Threshold Value=1.50 ± = Interpolated/extrapolated station													C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]								
2929.00H	2924.93	28.93	-70.16	2956.03	2954.81	342.52	-989.95	288.94	972.88	32.61	54.35	PASS				
2961.54	2957.03	28.86	-75.15	2986.93	2985.70	342.14	-989.09	288.92	966.58	32.70	53.85	PASS				
3029.00H	3023.55	32.88	-85.67	3048.32	3047.07	341.40	-987.56	288.89	953.49	32.88	52.82	PASS				
3129.00H	3122.14	38.87	-101.26	3140.85	3139.58	340.32	-985.89	288.82	934.74	33.18	51.31	PASS				
3229.00H	3220.74	44.88	-115.86	3235.01	3233.72	339.88	-984.35	288.78	916.38	33.52	49.78	PASS				
3329.00H	3319.33	50.84	-132.45	3329.07	3327.78	339.23	-983.50	288.72	898.62	33.89	48.28	PASS				
3429.00H	3417.93	56.83	-148.04	3427.82	3426.51	338.66	-982.64	288.66	880.94	34.31	46.74	PASS				
3529.00H	3516.52	62.81	-163.64	3523.28	3521.97	338.61	-981.83	288.63	863.44	34.75	45.22	PASS				
3629.00H	3615.12	68.80	-179.23	3618.87	3617.56	338.83	-981.34	288.61	846.35	35.22	43.73	PASS				
3729.00H	3713.71	74.78	-194.82	3718.70	3717.39	339.16	-980.85	288.59	829.30	35.73	42.23	PASS				
3829.00H	3812.31	80.77	-210.42	3818.45	3817.14	339.40	-980.20	288.57	812.08	36.26	40.74	PASS				
3929.00H	3910.90	86.76	-226.01	3916.45	3915.14	339.61	-979.54	288.55	794.83	36.82	39.27	PASS				
4029.00H	4009.50	92.74	-241.61	4013.80	4012.49	339.35	-979.15	288.49	777.68	37.39	37.82	PASS				
4129.00H	4108.09	98.73	-257.20	4110.70	4109.38	339.01	-979.00	288.41	760.74	38.00	36.40	PASS				
4229.00H	4206.69	104.72	-272.79	4210.34	4208.02	338.71	-978.84	288.34	743.82	38.82	35.01	PASS				
4329.00H	4305.28	110.70	-288.39	4309.78	4308.44	338.23	-978.60	288.25	726.76	39.27	33.64	PASS				
4429.00H	4403.88	116.69	-303.98	4408.69	4407.37	337.77	-978.30	288.15	709.65	39.93	32.29	PASS				
4529.00H	4502.47	122.67	-319.58	4511.78	4510.44	336.88	-977.66	288.03	692.11	40.63	30.95	PASS				
4629.00H	4601.07	128.66	-335.17	4609.59	4608.26	335.68	-976.89	287.88	674.33	41.33	29.64	PASS				
4729.00H	4699.66	134.66	-350.76	4705.99	4704.61	334.82	-976.25	287.76	658.78	42.06	28.38	PASS				
4829.00H	4798.26	140.63	-366.36	4809.21	4807.86	334.38	-975.20	287.65	639.00	42.81	27.10	PASS				
4929.00H	4896.85	146.62	-381.95	4912.41	4911.04	333.11	-973.51	287.50	620.41	43.58	25.84	PASS				
5029.00H	4995.45	152.60	-397.55	5010.11	5008.71	331.65	-971.63	287.32	601.50	44.36	24.61	PASS				
5129.00H	5094.04	158.59	-413.14	5104.42	5103.00	330.58	-970.12	287.16	583.00	45.16	23.43	PASS				
5229.00H	5192.64	164.58	-428.73	5200.67	5198.24	328.77	-968.01	287.00	566.01	45.97	22.30	PASS				
5329.00H	5291.23	170.56	-444.33	5297.90	5296.46	328.86	-968.21	286.81	547.30	46.78	21.23	PASS				
5429.00H	5389.83	176.55	-459.92	5397.60	5396.16	327.83	-967.40	286.60	529.59	47.43	20.19	PASS				
5529.00H	5488.42	182.53	-475.52	5494.82	5493.47	326.89	-966.57	286.38	511.86	48.27	19.17	PASS				
5629.00H	5587.02	188.52	-491.11	5592.82	5591.36	325.96	-965.89	286.15	494.29	49.12	18.19	PASS				
5729.00H	5685.61	194.51	-506.70	5690.97	5689.50	325.04	-965.29	285.89	476.82	49.97	17.25	PASS				



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 002H Offset Wellpath: [offset] Tyrell Fee No. 002H awp 100' - 13637' Proj: 13810'

Ref MD [N]	Ref TVD [N]	Ref North [N]	Ref East [N]	Offset MD [N]	Offset TVD [N]	Offset North [N]	Offset East [N]	Horiz Bearing [°]	C-C Clear Dist [N]	ACR MASD [N]	Sep Ratio	ACR Status
5829.00H	5784.21	200.49	-522.30	5789.32	5787.85	323.94	-964.78	285.59	459.40	50.82	16.34	PASS
5929.00H	5882.80	206.48	-537.89	5888.34	5886.86	322.76	-964.24	285.26	441.94	51.68	15.45	PASS
6029.00H	5981.40	212.46	-553.49	5986.24	5984.75	321.63	-963.68	284.90	424.47	52.55	14.60	PASS
6129.00H	6079.99	218.45	-569.08	6083.13	6081.64	320.59	-963.32	284.53	407.26	53.42	13.77	PASS
6229.00H	6178.58	224.44	-584.67	6181.50	6180.00	319.98	-963.12	284.17	390.32	54.29	12.89	PASS
6329.00H	6277.18	230.42	-600.27	6280.39	6278.89	319.45	-962.84	283.80	373.35	55.18	12.22	PASS
6429.00H	6375.78	236.41	-615.86	6377.46	6375.96	318.78	-962.70	283.36	356.48	56.06	11.49	PASS
6529.00H	6474.37	242.39	-631.46	6476.82	6475.11	318.00	-962.83	282.85	339.89	56.94	10.78	PASS
6629.00H	6572.97	248.38	-647.05	6578.63	6575.12	317.49	-962.49	282.36	322.93	57.84	10.08	PASS
6729.00H	6671.56	254.36	-662.64	6674.59	6673.18	316.98	-962.02	281.74	305.78	58.76	9.40	PASS
6829.00H	6770.16	260.35	-678.24	6772.97	6771.46	315.53	-961.77	281.01	288.86	59.68	8.74	PASS
6929.00H	6868.75	266.34	-693.83	6869.95	6868.42	314.58	-961.71	280.21	272.19	60.57	8.11	PASS
7029.00H	6967.35	272.32	-709.42	6968.90	6967.37	313.96	-962.02	279.36	256.00	61.44	7.52	PASS
7062.12	7000.00	274.30	-714.59	7001.98	7000.45	313.79	-962.01	279.07	250.55	61.73	7.33	PASS
7129.00H	7085.95	278.55	-724.85	7087.66	7086.43	313.38	-961.95	278.33	238.63	62.38	6.94	PASS
7219.28	7154.97	285.66	-738.16	7156.47	7154.94	312.67	-961.92	276.89	225.38	63.23	6.43	PASS
7229.00H	7164.55	286.48	-739.56	7165.97	7164.44	312.61	-961.93	276.70	223.90	63.32	6.38	PASS
7329.00H	7263.15	294.93	-753.97	7264.32	7262.79	311.96	-962.14	274.68	208.87	64.32	5.86	PASS
7429.00H	7361.74	303.39	-768.37	7363.17	7361.63	311.04	-962.33	272.26	194.11	65.38	5.36	PASS
7529.00H	7460.34	311.88	-782.77	7461.89	7460.35	310.00	-962.35	269.41	179.59	66.54	4.87	PASS
7629.00H	7558.93	320.31	-797.18	7560.32	7558.77	308.86	-962.33	266.04	165.55	67.84	4.40	PASS
7729.00H	7657.53	328.76	-811.58	7659.04	7657.48	307.57	-962.31	262.00	152.22	69.30	3.96	PASS
7829.00H	7756.12	337.22	-825.98	7758.19	7756.63	306.48	-961.98	257.26	139.43	70.97	3.54	PASS
7929.00H	7854.72	345.68	-840.39	7857.06	7855.48	305.58	-961.18	251.64	127.28	72.92	3.15	PASS
8029.00H	7953.31	354.13	-854.79	7956.04	7954.46	304.90	-960.14	244.95	116.29	75.17	2.79	PASS
8119.98	8043.01	361.83	-867.89	8046.05	8044.46	304.40	-958.62	237.67	107.38	77.49	2.50	PASS
8129.00H	8051.91	362.59	-869.19	8054.95	8053.35	304.35	-958.44	236.88	106.59	77.73	2.47	PASS
8229.00H	8150.67	370.53	-882.71	8153.74	8152.11	303.78	-956.25	227.77	99.33	80.41	2.22	PASS
8329.00H	8249.69	377.60	-894.75	8252.91	8251.26	303.72	-953.96	218.71	94.69	82.83	2.06	PASS
8429.00H	8348.94	383.79	-906.30	8352.35	8350.68	304.21	-961.65	210.16	92.06	84.60	1.95	PASS



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 002H Offset Wellpath: [offset] Tyrell Fee No. 002H awp 100' - 13637' Proj: 13810'													
Facility [offset]	Tyrell Fee Pad	Slot [offset]	Tyrell Fee No. 002H	Well [offset]	Tyrell Fee No. 002H	Threshold Values 1.50		+ = Interpolated/extrapolated station					
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
8529.00†	8448.38	389.10	-914.35	8451.89	8450.17	305.29	-949.24	202.60	90.81	86.29	1.89	PASS	
8568.14†	8507.28	391.83	-919.00	8510.68	8508.95	305.88	-947.64	198.43	90.62	86.98	1.88	PASS	
8629.00†	8548.00	393.54	-921.90	8551.15	8549.40	306.21	-946.43	195.69	90.72	87.40	1.87	PASS	
8668.18†	8587.07	395.04	-924.45	8590.02	8588.24	306.46	-945.20	193.18	90.98	87.74	1.87	PASS	
8729.00†	8627.75	397.09	-927.95	8630.58	8628.78	306.79	-943.20	189.58	91.58	88.21	1.87	PASS	
8829.00†	8747.61	399.76	-932.50	8750.02	8748.16	307.33	-940.07	184.68	92.75	88.83	1.88	PASS	
8929.00†	8847.55	401.55	-935.55	8845.63	8843.73	306.89	-937.74	181.33	94.76	89.14	1.91	PASS	
9029.00†	8947.53	402.46	-937.08	8926.83	8924.16	296.65	-938.28	180.65	108.37	88.47	2.21	PASS	
9081.47	9000.00	402.58	-937.30	8968.10	8964.03	286.05	-939.43	181.05	121.98	87.76	2.50	PASS	
9129.00†	9047.63	402.58	-937.30	9004.98	8998.86	274.07	-941.20	181.74	137.47	87.12	2.84	PASS	
9229.00†	9147.53	402.58	-937.30	9074.53	9062.12	245.68	-945.68	183.06	178.84	85.22	3.78	PASS	
9329.00†	9247.53	402.58	-937.30	9131.83	9110.48	215.14	-948.18	183.32	232.45	82.81	5.06	PASS	
9429.00†	9347.53	402.58	-937.30	9183.83	9150.86	182.40	-948.62	182.94	295.44	80.86	6.59	PASS	
9529.00†	9447.53	402.58	-937.30	9230.73	9184.64	149.90	-947.90	182.40	364.79	79.34	8.29	PASS	
9629.00†	9547.53	402.58	-937.30	9267.95	9209.40	122.14	-948.96	181.97	439.40	77.88	10.18	PASS	
9729.00†	9647.53	402.58	-937.30	9295.98	9226.52	99.97	-946.11	181.67	518.55	76.54	12.23	PASS	
9829.00†	9747.53	402.58	-937.30	9319.86	9239.86	80.18	-945.29	181.42	601.44	75.55	14.37	PASS	
9929.00†	9847.53	402.58	-937.30	9342.71	9251.66	60.63	-944.40	181.19	687.05	74.94	16.55	PASS	
10029.00†	9947.53	402.58	-937.30	9362.47	9261.14	43.32	-943.51	180.99	774.75	74.53	18.76	PASS	
10129.00†	10047.53	402.58	-937.30	9381.07	9269.48	26.73	-942.59	180.81	884.08	74.31	20.89	PASS	
10229.00†	10147.53	402.58	-937.30	9397.60	9276.44	11.76	-941.72	180.65	954.75	74.22	23.22	PASS	
10329.00†	10247.53	402.58	-937.30	9412.04	9282.18	-1.47	-940.92	180.51	1046.50	74.23	25.45	PASS	
10429.00†	10347.53	402.58	-937.30	9422.69	9286.16	-11.33	-940.31	180.42	1139.22	74.28	27.69	PASS	
10529.00†	10447.53	402.58	-937.30	9432.15	9289.50	-20.16	-939.75	180.33	1232.78	74.42	29.90	PASS	
10629.00†	10547.53	402.58	-937.30	9440.60	9292.31	-28.11	-939.23	180.28	1327.05	74.63	32.10	PASS	
10729.00†	10647.53	402.58	-937.30	9448.19	9294.70	-35.30	-938.76	180.19	1421.82	74.90	34.27	PASS	
10829.00†	10747.53	402.58	-937.30	9455.03	9296.76	-41.81	-938.32	180.13	1517.31	75.21	36.42	PASS	
10929.00†	10847.53	402.58	-937.30	9461.03	9298.47	-47.55	-937.93	180.08	1613.13	75.57	38.54	PASS	
11029.00†	10947.53	402.58	-937.30	9466.32	9299.91	-52.62	-937.59	180.04	1709.35	75.96	40.62	PASS	
11129.00†	11047.53	402.58	-937.30	9471.14	9301.16	-57.27	-937.29	180.00	1805.90	76.38	42.68	PASS	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 002H Offset Wellpath: [offset] Tyrell Fee No. 002H swp 100' - 13637' Proj: 13810'

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11229.00†	11147.53	402.58	-937.30	9475.56	9302.26	-61.54	-937.01	179.96	1902.74	76.83	44.71	PASS
11329.00†	11247.53	402.58	-937.30	9479.62	9303.23	-65.48	-936.76	179.93	1999.84	77.30	46.70	PASS
11429.00†	11347.53	402.58	-937.30	9483.37	9304.09	-69.12	-936.53	179.91	2097.18	77.80	48.66	PASS
11529.00†	11447.53	402.58	-937.30	9487.05	9304.90	-72.71	-936.31	179.88	2194.71	78.31	50.59	PASS
11629.00†	11547.53	402.58	-937.30	9491.10	9305.78	-76.65	-936.07	179.85	2292.42	78.85	52.48	PASS
11729.00†	11647.53	402.58	-937.30	9494.87	9306.53	-80.34	-935.85	179.83	2390.29	79.40	54.34	PASS
11829.00†	11747.53	402.58	-937.30	9498.41	9307.23	-83.80	-935.64	179.80	2488.29	79.96	56.17	PASS
11834.31	11752.84	402.58	-937.30	9498.59	9307.27	-83.97	-935.63	179.80	2493.50	79.99	56.26	PASS
11929.00†	11847.10	394.77	-937.24	9503.00	9308.11	-88.30	-935.36	179.78	2584.53	80.54	57.92	PASS
12029.00†	11943.80	369.82	-937.04	9510.01	9309.37	-95.18	-934.94	179.74	2675.16	81.18	59.48	PASS
12129.00†	12034.71	328.45	-936.72	9519.08	9310.87	-104.11	-934.39	179.69	2757.97	81.90	60.78	PASS
12229.00†	12117.04	271.93	-936.27	9529.88	9312.45	-114.77	-933.74	179.63	2831.13	82.70	61.79	PASS
12329.00†	12188.32	201.97	-935.72	9542.88	9314.08	-127.65	-932.95	179.52	2893.08	83.58	62.47	PASS
12429.00†	12246.36	120.70	-935.08	9557.36	9315.55	-142.02	-932.03	179.34	2942.56	84.55	62.81	PASS
12529.00†	12289.40	30.58	-934.37	9572.72	9316.71	-157.30	-931.02	178.98	2978.62	85.69	62.80	PASS
12629.00†	12316.15	-65.64	-933.61	9606.58	9318.36	-191.05	-928.75	177.78	3000.41	86.77	62.40	PASS
12634.31	12317.09	-70.87	-933.57	9609.22	9318.47	-193.68	-928.58	177.67	3001.14	86.81	62.39	PASS
12729.00†	12328.89	-164.78	-932.83	9656.41	9320.03	-240.75	-925.55	174.53	3009.83	87.17	62.31	PASS
12773.48	12331.20	-208.19	-932.48	9678.28	9320.50	-262.56	-924.21	171.19	3011.18	87.39	62.18	PASS
12829.00†	12332.80	-284.89	-932.06	9703.14	9320.82	-287.38	-922.89	167.58	3012.08	87.60	62.05	PASS
12929.00†	12335.68	-364.64	-931.26	9747.87	9320.76	-332.03	-919.96	19.11	3015.12	87.40	62.26	PASS
13029.00†	12338.56	-464.60	-930.47	9824.26	9319.41	-408.22	-914.70	15.63	3019.72	87.61	62.20	PASS
13129.00†	12341.44	-564.56	-929.69	9996.31	9318.95	-579.40	-897.56	114.81	3022.70	88.64	61.54	PASS
13229.00†	12344.32	-664.51	-928.90	10099.42	9319.02	-681.92	-886.62	112.39	3025.65	89.25	61.17	PASS
13329.00†	12347.20	-764.47	-928.11	10292.92	9323.45	-674.68	-870.34	152.34	3026.30	90.85	60.11	PASS
13429.00†	12350.08	-864.42	-927.33	10438.00	9330.48	-1019.10	-858.43	155.99	3024.34	92.15	59.22	PASS
13529.00†	12352.96	-964.38	-926.54	10509.56	9333.93	-1090.32	-852.32	149.49	3022.56	92.72	58.82	PASS
13629.00†	12355.84	-1064.33	-925.75	10581.10	9336.72	-1161.53	-846.09	140.66	3021.73	93.37	58.39	PASS
13729.00†	12358.72	-1164.29	-924.97	10650.04	9338.77	-1230.15	-839.78	127.71	3021.87	94.04	57.98	PASS
13829.00†	12361.60	-1264.24	-924.18	10715.57	9340.00	-1295.39	-833.72	108.00	3023.11	94.74	57.57	PASS



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Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 002H Offset Wellpath: [offset] Tyrell Fee No. 002H awp 100' - 13637' Proj: 13810'

Facility [offset] Tyrell Fee Pad		Slot [offset] Tyrell Fee No. 002H		Well [offset] Tyrell Fee No. 002H		Threshold Value=1.80		† = Interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13929.00†	12364.48	-1364.20	-923.39	10771.19	9340.33	-1350.76	-828.49	81.94	3025.67	95.40	57.22	PASS
14029.00†	12367.35	-1464.15	-922.61	10884.63	9339.81	-1463.73	-818.25	89.77	3029.35	96.76	56.48	PASS
14129.00†	12370.23	-1564.11	-921.82	11038.60	9342.70	-1617.39	-809.22	115.32	3030.10	98.69	55.39	PASS
14229.00†	12373.11	-1664.07	-921.03	11111.77	9343.49	-1690.49	-806.07	102.95	3031.92	99.72	54.85	PASS
14329.00†	12375.99	-1764.02	-920.24	11326.84	9351.21	-1807.18	-798.28	139.11	3030.70	102.84	53.27	PASS
14429.00†	12378.87	-1863.98	-919.46	11399.70	9354.44	-1977.85	-792.42	131.87	3029.24	103.75	52.67	PASS
14529.00†	12381.75	-1963.93	-918.67	11461.07	9356.51	-2039.09	-788.85	120.07	3028.96	104.79	52.14	PASS
14572.36	12383.00	-2007.27	-918.33	11487.92	9357.17	-2065.87	-787.22	114.09	3029.24	105.26	51.91	PASS
14615.47	12384.00	-2050.37	-917.99	11514.68	9357.68	-2092.59	-785.66	107.70	3029.50	105.74	51.68	PASS
14659.90†	12384.24	-2063.90	-917.88	11523.08	9357.81	-2100.88	-785.18	105.81	3029.58	105.89	51.61	PASS
14729.00†	12385.99	-2163.88	-917.10	11582.09	9358.31	-2159.89	-781.92	88.31	3030.69	107.00	51.09	PASS
14829.00†	12387.74	-2263.86	-916.31	11636.21	9357.97	-2213.92	-778.80	70.04	3033.30	108.09	50.61	PASS
14929.00†	12389.49	-2363.84	-915.52	11801.18	9357.70	-2378.57	-768.84	95.74	3035.37	110.65	49.48	PASS
15029.00†	12391.24	-2463.82	-914.74	11870.43	9358.01	-2447.72	-765.00	83.86	3036.97	112.02	48.89	PASS
15072.44†	12392.00	-2507.28	-914.40	11893.23	9357.87	-2479.48	-763.71	76.29	3038.09	112.54	48.69	PASS
15078.42	12392.11	-2513.24	-914.35	11896.37	9357.84	-2473.61	-763.52	75.28	3038.27	112.61	48.66	PASS
15129.00†	12393.07	-2563.80	-913.95	11922.89	9357.47	-2500.09	-761.96	67.26	3040.07	113.22	48.43	PASS
15229.00†	12394.98	-2663.78	-913.16	12076.83	9357.06	-2653.61	-750.78	86.42	3042.27	115.79	47.38	PASS
15329.00†	12396.89	-2763.76	-912.38	12129.22	9356.72	-2705.81	-746.38	70.76	3045.25	117.06	46.91	PASS
15429.00†	12398.60	-2863.74	-911.59	12181.45	9356.56	-2787.93	-741.81	58.06	3048.80	118.37	46.47	PASS
15529.00†	12400.70	-2963.72	-910.80	12433.97	9352.91	-3009.30	-719.66	103.41	3054.12	122.44	44.98	PASS
15629.00†	12402.61	-3063.70	-910.02	12541.43	9355.66	-3116.25	-709.51	104.69	3053.99	124.60	44.20	PASS
15729.00†	12404.52	-3163.68	-909.23	12606.86	9356.84	-3181.36	-703.12	94.90	3054.69	126.20	43.65	PASS
15829.00†	12406.43	-3263.65	-908.44	12668.49	9357.22	-3242.69	-697.11	84.33	3056.59	127.77	43.13	PASS
15929.00†	12408.33	-3363.63	-907.65	12740.96	9356.81	-3314.83	-690.24	77.35	3058.65	128.53	42.68	PASS
16029.00†	12410.24	-3463.61	-906.87	12883.12	9355.67	-3456.60	-679.88	88.23	3063.00	132.30	41.74	PASS
16129.00†	12412.15	-3563.59	-906.08	12949.80	9355.42	-3523.19	-676.40	80.02	3065.62	134.02	41.24	PASS
16229.00†	12414.06	-3663.57	-905.29	13116.75	9356.35	-3689.79	-665.96	96.25	3067.17	137.21	40.30	PASS
16329.00†	12415.96	-3763.55	-904.51	13179.92	9356.89	-3752.78	-661.33	87.47	3068.75	138.95	39.82	PASS
16429.00†	12417.87	-3863.53	-903.72	13378.22	9358.97	-3850.42	-646.73	108.61	3070.99	142.71	38.79	PASS



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Tyrell Fee No. 002H Offset Wellpath: [offset] Tyrell Fee No. 002H awp 100' - 13637' Proj: 13810'													
Facility	[offset] Tyrell Fee Pad	Slot	[offset] Tyrell Fee No. 002H	Well	[offset] Tyrell Fee No. 002H	Threshold Values=1.80 † = Interpolated/extrapolated station							
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
16529.00†	12419.78	-3963.51	-902.93	13417.78	9359.94	-3989.87	-642.90	95.79	3070.98	144.15	38.40	PASS	
16629.00†	12421.69	-4063.48	-902.15	13463.88	9360.10	-4035.87	-639.98	83.99	3072.92	145.70	38.02	PASS	
16729.00†	12423.59	-4163.46	-901.36	13534.27	9359.52	-4106.11	-635.43	77.83	3076.13	147.62	37.56	PASS	
16829.00†	12425.50	-4263.44	-900.57	13657.15	9358.39	-4228.70	-627.07	82.76	3079.48	150.34	36.92	PASS	
16929.00†	12427.41	-4363.42	-899.79	13758.94	9357.87	-4328.26	-620.29	82.83	3082.44	151.86	36.58	PASS	
17029.00†	12429.32	-4463.40	-899.00	13810.00	9357.59	-4381.20	-616.67	73.77	3085.77	154.63	35.97	PASS	
17064.78	12430.00	-4499.18	-898.72	13810.00	9357.59	-4381.20	-616.67	67.30	3087.58	154.87	35.94	PASS	

POSITIONAL UNCERTAINTY - Offset Wellbore: [offset] Tyrell Fee No. 002H Offset Wellpath: [offset] Tyrell Fee No. 002H awp 100' - 13637' Proj: 13810'			
Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical
Facility Surface Uncertainty @1SD	Horizontal	3.300ft	Vertical
			1.000ft
			3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: [offset] Tyrell Fee No. 002H Offset Wellpath: [offset] Tyrell Fee No. 002H awp 100' - 13637' Proj: 13810'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.375in Casing	26.00	1320.00	1294.00	22.00	1315.96	209.65	-602.36	210.66	-604.98
9.625in Casing	26.00	5305.00	5279.00	22.00	5300.56	209.65	-602.36	205.04	-596.27
5.5in Casing	26.00	13810.00	13784.00	22.00	9354.59	209.65	-602.36	-1230.56	-489.14



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

WELLPATH COMPOSITION - Offset Wellbore: [offset] Tyrell Fee No. 002H Offset Wellpath: [offset] Tyrell Fee No. 002H awp 100' - 13637' Proj: 13810'			
Start MD [m]	End MD [m]	Positional Uncertainty Model	Log Name/Comment
26.00	8750.00	BHI Generic gyro - northseeking (Standard)	Imported Gyro surveys from 100' - 8750'
8750.00	13637.00	ISCWSA MWD, Rev. 4 (Standard)	Imported DDC MWD surveys from 8798' - 13637'
13637.00	13810.00	Blind Drilling (std)	Projection to bit

OFFSET WELLPATH REFERENCE - Offset Wellbore: [offset] Tyrell Fee No. 002H Offset Wellpath: [offset] Tyrell Fee No. 002H awp 100' - 13637' Proj: 13810'	
MD Reference: Rig: McVay 8 (KB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	26.00ft



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Leo Thorsness 13-24S-33E AR 211H Offset Wellpath: [offset] Leo Thorsness 13-24S-33E AR 211H awp 195° - 16995' Proj: 17045'

Facility [offset] Leo Thorsness 13-24S-33E AR 211H Slot [offset] Leo Thorsness 13-24S-33E AR 211H Well [offset] Leo Thorsness 13-24S-33E AR 211H Threshold Value=1.80 † = Interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
29.00	29.00	0.00	0.00	-2.00	29.00	0.00	30.00	90.00	30.00	11.88	4.55	PASS	
129.00†	129.00	0.00	0.00	98.02	129.02	0.12	29.96	89.76	29.97	24.37	2.22	PASS	
229.00†	229.00	0.00	0.00	198.04	229.04	0.51	29.85	89.03	29.86	24.46	2.21	PASS	
329.00†	329.00	0.00	0.00	298.01	329.01	0.67	29.77	88.70	29.78	24.63	2.18	PASS	
358.05†	358.05	0.00	0.00	328.01	358.01	0.61	29.77	88.62	29.77	24.69	2.18	PASS	
418.62†	418.62	0.00	0.00	387.52	418.52	0.44	29.86	89.15	29.86	24.83	2.17	PASS	
429.00†	429.00	0.00	0.00	397.89	428.89	0.43	29.89	89.18	29.90	24.86	2.17	PASS	
529.00†	529.00	0.00	0.00	497.73	528.73	0.72	30.52	88.65	30.52	25.16	2.19	PASS	
629.00†	629.00	0.00	0.00	597.50	628.47	2.80	31.64	84.94	31.77	25.52	2.25	PASS	
729.00†	729.00	0.00	0.00	698.92	727.76	7.38	33.49	77.59	34.32	25.94	2.39	PASS	
829.00†	829.00	0.00	0.00	796.73	827.33	13.87	35.69	68.76	36.32	26.42	2.63	PASS	
929.00†	929.00	0.00	0.00	896.39	926.72	21.01	37.63	60.83	43.16	26.95	2.91	PASS	
1029.00†	1029.00	0.00	0.00	995.73	1025.78	28.14	39.87	54.78	48.91	27.53	3.23	PASS	
1129.00†	1129.00	0.00	0.00	1093.78	1123.37	36.77	43.71	49.93	57.40	28.14	3.71	PASS	
1229.00†	1229.00	0.00	0.00	1193.38	1222.40	46.05	48.44	48.48	67.18	28.82	4.24	PASS	
1329.00†	1329.00	0.00	0.00	1292.50	1320.88	55.24	53.42	44.04	77.27	29.54	4.76	PASS	
1429.00†	1429.00	0.00	0.00	1391.84	1419.73	64.87	58.40	41.99	87.78	29.95	5.32	PASS	
1529.00†	1529.00	0.00	0.00	1491.15	1518.46	74.32	63.58	40.55	98.37	30.36	5.89	PASS	
1629.00†	1629.00	0.00	0.00	1590.64	1617.34	83.90	68.91	39.40	109.20	30.83	6.44	PASS	
1729.00†	1729.00	0.00	0.00	1691.71	1717.87	93.09	73.90	38.45	119.37	31.38	6.92	PASS	
1829.00†	1829.00	0.00	0.00	1791.69	1817.46	100.77	78.24	37.83	128.10	31.91	7.30	PASS	
1929.00†	1929.00	0.00	0.00	1891.30	1916.62	108.87	82.97	37.31	137.44	32.49	7.69	PASS	
2000.00	2000.00	0.00	0.00	1964.19	1989.25	114.14	86.18	37.05	143.42	32.95	7.91	PASS	
2029.00†	2029.00	0.03	-0.07	1994.49	2019.47	115.98	87.27	36.99	145.48	33.15	7.97	PASS	
2129.00†	2128.96	0.52	-1.36	2068.96	2120.78	121.00	90.14	37.22	181.51	33.83	8.14	PASS	
2229.00†	2228.94	1.64	-4.27	2195.85	2220.53	125.68	92.85	38.06	157.76	34.53	8.30	PASS	
2329.00†	2328.82	3.38	-8.82	2295.85	2320.38	130.42	95.32	39.34	164.48	35.27	8.47	PASS	
2429.00†	2428.60	5.75	-14.99	2395.31	2419.70	135.17	97.62	41.03	171.78	36.04	8.66	PASS	
2529.00†	2528.25	8.75	-22.78	2494.68	2518.93	140.17	99.77	43.00	179.94	36.72	8.90	PASS	
2629.00†	2627.74	12.36	-32.20	2594.33	2618.42	145.29	101.74	45.22	188.93	37.31	9.19	PASS	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Leo Thorsness 13-24S-33E AR 211H Offset Wellpath: [offset] Leo Thorsness 13-24S-33E AR 211H awp 195' - 16995' Proj: 17045'												
Facility [offset] Leo Thorsness 13-24S-33E AR 211H	Slot [offset] Leo Thorsness 13-24S-33E AR 211H	Well [offset] Leo Thorsness 13-24S-33E AR 211H	Threshold Value=1.80 † = Interpolated/extrapolated station									
Ref MD [m]	Ref TVD [m]	Ref North [m]	Ref East [m]	Offset MD [m]	Offset TVD [m]	Offset North [m]	Offset East [m]	Horiz Bearing [°]	C-C Clear Dist [m]	ACR MASD [m]	Sep Ratio	ACR Status
2729.00†	2727.03	16.60	-43.24	2692.90	2716.85	149.89	104.17	47.88	199.00	37.94	9.52	PASS
2829.00†	2826.11	21.45	-55.89	2790.31	2814.11	154.03	107.57	50.96	210.81	38.61	9.91	PASS
2929.00†	2924.93	26.93	-70.16	2889.01	2912.66	158.13	111.36	54.14	224.31	39.34	10.35	PASS
2961.54	2957.03	28.85	-75.15	2920.93	2944.52	159.43	112.58	55.18	229.02	39.58	10.50	PASS
3029.00†	3023.65	32.88	-85.67	2986.99	3010.49	162.09	115.13	57.24	239.13	40.10	10.83	PASS
3129.00†	3122.14	38.87	-101.26	3084.73	3108.07	166.08	119.01	59.99	254.75	40.88	11.31	PASS
3229.00†	3220.74	44.86	-116.86	3182.96	3206.14	169.95	122.98	62.46	270.89	41.70	11.79	PASS
3329.00†	3319.33	50.84	-132.45	3280.80	3303.82	173.89	126.92	64.62	287.50	42.54	12.26	PASS
3429.00†	3417.93	56.83	-148.04	3379.03	3401.89	177.94	130.86	66.53	304.48	43.41	12.73	PASS
3529.00†	3516.52	62.81	-163.64	3477.53	3500.34	181.67	134.78	68.28	321.63	44.29	13.17	PASS
3629.00†	3615.12	68.80	-179.23	3575.73	3598.30	184.99	138.75	69.93	338.96	45.20	13.60	PASS
3729.00†	3713.71	74.79	-194.82	3673.57	3696.00	188.14	142.78	71.44	356.57	46.12	14.02	PASS
3829.00†	3812.31	80.77	-210.42	3772.05	3794.36	191.13	146.94	72.84	374.44	47.06	14.43	PASS
3929.00†	3910.90	86.76	-226.01	3870.26	3892.44	193.91	150.85	74.13	392.23	48.02	14.81	PASS
4029.00†	4009.50	92.74	-241.61	3968.14	3988.18	197.78	154.72	75.16	410.58	48.98	15.20	PASS
4129.00†	4108.09	98.73	-257.20	4063.29	4085.10	202.95	158.75	75.93	429.43	49.98	15.57	PASS
4229.00†	4206.69	104.72	-272.79	4162.04	4183.61	208.33	162.77	76.62	448.31	51.02	15.93	PASS
4329.00†	4305.28	110.70	-288.39	4260.21	4281.57	213.57	166.67	77.26	467.14	52.06	16.26	PASS
4429.00†	4403.88	116.69	-303.98	4357.80	4378.95	218.67	170.64	77.87	486.09	53.11	16.59	PASS
4529.00†	4502.47	122.67	-319.58	4453.59	4474.62	223.49	174.77	78.47	505.29	54.16	16.91	PASS
4629.00†	4601.07	128.66	-335.17	4547.74	4568.46	227.59	179.58	79.12	525.19	55.18	17.24	PASS
4729.00†	4699.66	134.65	-350.76	4642.97	4663.47	231.07	185.21	79.80	545.78	56.23	17.58	PASS
4829.00†	4798.26	140.63	-366.36	4739.19	4759.45	234.15	191.26	80.48	566.73	57.29	17.92	PASS
4929.00†	4896.85	146.62	-381.95	4834.87	4854.88	236.78	197.59	81.16	588.02	58.35	18.25	PASS
5029.00†	4995.45	152.60	-397.55	4930.04	4949.76	238.91	204.31	81.84	609.72	59.41	18.59	PASS
5129.00†	5094.04	158.59	-413.14	5027.97	5047.44	240.91	211.48	82.49	631.74	60.51	18.91	PASS
5229.00†	5192.64	164.58	-428.73	5128.34	5147.52	244.20	218.29	82.98	653.46	61.65	19.19	PASS
5329.00†	5291.23	170.56	-444.33	5228.18	5247.07	248.55	224.54	83.35	674.85	62.81	19.45	PASS
5429.00†	5389.83	176.55	-459.92	5331.34	5349.96	252.83	230.43	83.69	695.69	63.92	19.68	PASS
5529.00†	5488.42	182.53	-475.52	5429.79	5448.17	256.79	235.55	84.04	716.06	65.06	19.89	PASS



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Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Leo Thorness 13-24S-33E AR 211H Offset Wellpath: [offset] Leo Thorness 13-24S-33E AR 211H awp 105° - 16995° Proj: 17045°													
Facility: [offset] Leo Thorness 13-24S-33E AR 211H				Slot: [offset] Leo Thorness 13-24S-33E AR 211H				Well: [offset] Leo Thorness 13-24S-33E AR 211H				Threshold Values: 1.80	
Ref MD	Ref TVD	Ref North	Ref East	Offset MD	Offset TVD	Offset North	Offset East	Horiz Bearing	C-O Clear Dist	ACR MASD	Sep Ratio	† = Interpolated/extrapolated station	
[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[°]	[m]	[m]			ACR Status
5628.00†	5587.02	188.52	-491.11	5526.85	5545.04	260.94	240.64	84.35	736.52	66.24	20.10		PASS
5729.00†	5685.61	194.51	-506.70	5620.23	5638.17	265.54	245.76	84.61	757.30	67.37	20.32		PASS
5829.00†	5784.21	200.49	-522.30	5712.68	5730.27	271.12	251.36	84.78	778.75	68.50	20.55		PASS
5929.00†	5882.80	206.48	-537.89	5813.78	5830.95	277.94	257.66	84.87	800.43	69.74	20.75		PASS
6029.00†	5981.40	212.49	-553.49	5917.99	5934.49	284.72	263.40	84.95	821.42	71.01	20.91		PASS
6129.00†	6079.99	218.45	-569.08	6015.24	6031.71	290.93	268.43	85.05	842.03	72.23	21.07		PASS
6229.00†	6178.58	224.44	-584.67	6112.44	6128.58	297.05	273.52	85.16	862.72	73.44	21.23		PASS
6329.00†	6277.18	230.42	-600.27	6211.28	6227.08	303.24	278.68	85.26	883.38	74.67	21.38		PASS
6429.00†	6375.78	236.41	-615.86	6310.05	6325.54	309.39	283.73	85.36	903.94	75.91	21.52		PASS
6529.00†	6474.37	242.39	-631.46	6407.39	6422.56	315.42	288.89	85.48	924.49	77.14	21.65		PASS
6629.00†	6572.97	248.38	-647.05	6504.68	6519.53	321.40	293.70	85.56	945.09	78.37	21.79		PASS
6729.00†	6671.56	254.36	-662.64	6601.66	6616.20	327.45	298.76	85.65	965.77	79.60	21.92		PASS
6829.00†	6770.16	260.35	-678.24	6699.21	6713.42	333.68	303.93	85.73	986.53	80.85	22.04		PASS
6929.00†	6868.75	266.34	-693.83	6799.99	6813.85	340.11	309.10	85.79	1007.14	82.13	22.15		PASS
7029.00†	6967.35	272.32	-709.42	6901.44	6914.98	346.48	314.01	85.86	1027.48	83.43	22.25		PASS
7062.12	7000.00	274.30	-714.59	6935.56	6949.00	348.74	315.56	85.87	1034.09	83.86	22.27		PASS
7129.00†	7065.95	278.66	-724.85	7004.59	7017.79	353.61	318.50	85.89	1047.15	84.75	22.32		PASS
7219.28	7154.97	285.66	-738.16	7096.75	7109.61	360.70	322.04	85.95	1063.83	85.95	22.36		PASS
7229.00†	7164.55	286.48	-739.56	7106.45	7119.27	361.46	322.40	85.96	1065.57	86.07	22.36		PASS
7328.00†	7263.18	294.83	-753.97	7206.30	7218.76	369.18	326.03	86.07	1083.46	87.38	22.39		PASS
7429.00†	7361.74	303.39	-768.37	7306.41	7318.51	376.83	329.53	86.17	1101.20	88.70	22.42		PASS
7529.00†	7460.34	311.85	-782.77	7406.75	7418.49	384.64	332.86	86.27	1118.79	90.02	22.44		PASS
7629.00†	7558.93	320.31	-797.18	7507.35	7518.73	392.56	336.01	86.35	1136.20	91.35	22.46		PASS
7729.00†	7657.53	328.76	-811.58	7608.11	7619.15	400.30	338.98	86.44	1153.42	92.68	22.47		PASS
7829.00†	7756.12	337.22	-825.98	7709.17	7719.90	407.79	341.76	86.54	1170.44	94.01	22.48		PASS
7929.00†	7854.72	345.68	-840.39	7810.37	7820.81	414.85	344.35	86.66	1187.24	95.34	22.48		PASS
8029.00†	7953.31	354.13	-854.79	7907.54	7917.74	421.18	346.79	86.81	1203.97	96.63	22.50		PASS
8119.98	8043.01	361.83	-867.89	7995.33	8005.35	426.42	349.16	86.96	1219.35	97.79	22.51		PASS
8129.00†	8051.91	362.59	-869.19	8004.04	8014.03	428.91	349.40	86.98	1220.87	97.91	22.51		PASS
8229.00†	8150.61	370.63	-882.71	8103.64	8113.45	432.31	352.18	87.14	1236.89	99.20	22.51		PASS



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Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Leo Thorness 13-24S-33E AR 211H Offset Wellpath: [offset] Leo Thorness 13-24S-33E AR 211H awp 195' - 16995' Proj: 17045'

Facility [offset] Leo Thorness 13-24S-33E AR 211H Slot [offset] Leo Thorness 13-24S-33E AR 211H Well [offset] Leo Thorness 13-24S-33E AR 211H Threshold Values: 1.50 † = Interpolated/extrapolated station													
Ref MD [m]	Ref TVD [m]	Ref North [m]	Ref East [m]	Offset MD [m]	Offset TVD [m]	Offset North [m]	Offset East [m]	Horiz Bearing [°]	C-C Clear Dist [m]	ACR MABD [m]	Sep Ratio	ACR Status	
8329.00†	8249.69	377.60	-894.75	8203.88	8213.53	437.26	354.89	87.27	1251.59	100.50	22.48	PASS	
8429.00†	8348.94	383.79	-905.30	8313.46	8322.95	442.65	357.35	87.33	1264.28	101.88	22.40	PASS	
8529.00†	8448.38	389.10	-914.35	8418.85	8428.18	448.28	358.87	87.34	1274.76	103.21	22.30	PASS	
8629.00†	8548.00	393.54	-921.90	8512.32	8521.48	453.67	360.33	87.32	1283.91	104.42	22.19	PASS	
8729.00†	8647.75	397.09	-927.95	8608.80	8618.57	459.47	362.23	87.23	1292.08	105.64	22.08	PASS	
8829.00†	8747.61	399.76	-932.50	8703.53	8712.29	465.42	364.45	87.10	1299.09	106.88	21.94	PASS	
8929.00†	8847.55	401.55	-935.55	8800.94	8809.50	471.21	366.90	86.94	1304.87	108.10	21.79	PASS	
9029.00†	8947.53	402.46	-937.09	8899.56	8907.94	476.44	369.55	86.76	1309.33	109.32	21.62	PASS	
9081.47	9000.00	402.58	-937.30	8951.33	8959.64	478.87	370.99	86.66	1311.13	109.95	21.52	PASS	
9129.00†	9047.53	402.58	-937.30	9008.66	9016.78	481.27	372.44	86.58	1312.46	110.59	21.42	PASS	
9229.00†	9147.53	402.58	-937.30	9136.27	9144.43	485.20	373.85	86.40	1313.75	111.98	21.17	PASS	
9329.00†	9247.53	402.58	-937.30	9249.63	9257.76	487.76	373.30	86.28	1313.41	113.22	20.93	PASS	
9429.00†	9347.53	402.58	-937.30	9358.52	9366.60	490.69	371.82	86.15	1312.22	114.43	20.69	PASS	
9529.00†	9447.53	402.58	-937.30	9455.47	9463.51	493.23	370.35	86.03	1310.89	115.55	20.47	PASS	
9629.00†	9547.53	402.58	-937.30	9555.41	9563.41	496.48	369.07	85.93	1308.78	116.69	20.28	PASS	
9729.00†	9647.53	402.58	-937.30	9667.93	9675.89	497.98	366.98	85.82	1308.07	117.82	20.02	PASS	
9829.00†	9747.53	402.58	-937.30	9771.98	9779.87	500.33	364.22	85.71	1305.59	119.08	19.78	PASS	
9929.00†	9847.53	402.58	-937.30	9867.66	9875.50	502.05	361.87	85.62	1303.28	120.19	19.56	PASS	
10029.00†	9947.53	402.58	-937.30	9952.73	9960.55	503.16	360.24	85.57	1301.50	121.23	19.37	PASS	
10129.00†	10047.53	402.58	-937.30	10027.41	10035.23	503.82	360.17	85.54	1301.47	122.19	19.22	PASS	
10229.00†	10147.53	402.58	-937.30	10102.06	10109.87	504.19	361.58	85.53	1303.39	123.11	19.10	PASS	
10329.00†	10247.53	402.58	-937.30	10214.59	10222.36	504.34	364.34	85.53	1305.86	124.36	18.94	PASS	
10429.00†	10347.53	402.58	-937.30	10326.30	10334.06	504.13	365.95	85.54	1307.27	125.60	18.78	PASS	
10529.00†	10447.53	402.58	-937.30	10432.27	10440.02	503.96	366.82	85.56	1308.07	126.79	18.61	PASS	
10629.00†	10547.53	402.58	-937.30	10531.32	10539.07	503.98	367.26	85.56	1308.55	127.93	18.45	PASS	
10729.00†	10647.53	402.58	-937.30	10623.50	10631.25	504.36	368.13	85.54	1309.49	129.03	18.31	PASS	
10829.00†	10747.53	402.58	-937.30	10720.33	10728.07	505.03	369.50	85.52	1310.96	130.17	18.17	PASS	
10929.00†	10847.53	402.58	-937.30	10823.05	10830.78	504.86	370.94	85.53	1312.34	131.34	18.02	PASS	
11029.00†	10947.53	402.58	-937.30	10917.94	10925.65	503.84	372.30	85.58	1313.69	132.44	17.89	PASS	
11129.00†	11047.53	402.58	-937.30	11007.39	11015.07	502.88	374.22	85.63	1315.78	133.50	17.78	PASS	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Leo Thorsness 13-24S-33E AR 211H Offset Wellpath: [offset] Leo Thorsness 13-24S-33E AR 211H awp 195' - 16995' Proj: 17045'

Facility: [offset] Leo Thorsness 13-24S-33E AR 211H Slot: [offset] Leo Thorsness 13-24S-33E AR 211H Well: [offset] Leo Thorsness 13-24S-33E AR 211H Threshold Value=1.60 ± = interpolated/extrapolated station													
Ref MD [m]	Ref TVD [m]	Ref North [m]	Ref East [m]	Offset MD [m]	Offset TVD [m]	Offset North [m]	Offset East [m]	Horiz Bearing [°]	C-C Clear Dist [m]	ACR MASD [m]	Sep Ratio	ACR Status	
11229.00	11147.53	402.58	-937.30	11107.40	11115.04	501.73	376.99	85.69	1318.43	134.63	17.66	PASS	
11329.00	11247.53	402.58	-937.30	11218.96	11226.55	499.77	379.41	85.78	1320.45	135.87	17.53	PASS	
11429.00	11347.53	402.58	-937.30	11330.82	11338.39	497.64	380.84	85.88	1321.60	137.08	17.39	PASS	
11529.00	11447.53	402.58	-937.30	11441.37	11448.93	496.90	381.17	85.91	1321.84	138.29	17.24	PASS	
11629.00	11547.53	402.58	-937.30	11554.94	11562.50	496.93	381.30	85.91	1321.98	139.41	17.10	PASS	
11729.00	11647.53	402.58	-937.30	11629.10	11636.66	497.18	381.87	85.90	1322.60	140.53	16.98	PASS	
11829.00	11747.53	402.58	-937.30	11742.56	11750.11	497.26	382.68	85.90	1323.37	141.78	16.83	PASS	
11834.31	11752.84	402.58	-937.30	11753.30	11760.84	496.80	382.66	85.92	1323.35	141.88	16.82	PASS	
11929.00	11847.10	394.77	-937.24	11798.09	11805.28	491.71	383.33	85.80	1324.78	142.50	16.76	PASS	
12029.00	11943.80	389.82	-937.04	11846.08	11851.83	479.93	386.71	85.25	1331.51	142.93	16.80	PASS	
12129.00	12034.71	328.45	-936.72	11904.77	11906.97	461.40	393.06	84.29	1342.50	143.28	16.90	PASS	
12229.00	12117.04	271.93	-936.27	11975.58	11970.28	431.44	403.14	83.21	1356.84	143.62	17.04	PASS	
12329.00	12188.32	201.97	-935.72	12383.45	12255.12	149.41	414.49	92.23	1352.89	144.83	16.84	PASS	
12429.00	12248.36	120.70	-935.08	12526.35	12309.74	18.07	402.53	94.39	1343.03	145.34	16.66	PASS	
12529.00	12269.40	30.59	-934.37	12620.62	12338.11	-72.33	394.47	84.45	1335.80	145.86	16.48	PASS	
12629.00	12316.15	-65.64	-933.61	12689.55	12349.56	-139.54	389.57	93.20	1325.66	146.51	16.31	PASS	
12634.31	12317.09	-70.87	-933.57	12693.61	12350.26	-143.52	389.33	93.14	1325.31	146.55	16.30	PASS	
12729.00	12328.89	-164.78	-932.83	12755.45	12358.78	-204.69	386.38	91.73	1320.16	147.25	16.16	PASS	
12773.48	12331.20	-209.19	-932.48	12785.30	12361.37	-234.41	385.62	91.10	1318.69	147.62	16.10	PASS	
12829.00	12332.80	-264.69	-932.05	12826.15	12363.52	-275.20	385.02	90.48	1317.46	148.14	16.03	PASS	
12929.00	12335.68	-364.84	-931.26	12904.86	12364.11	-353.90	385.10	89.53	1316.71	149.16	15.91	PASS	
13029.00	12338.56	-464.60	-930.47	12981.62	12364.15	-430.65	386.25	88.52	1317.41	150.25	15.80	PASS	
13129.00	12341.44	-564.56	-929.69	13048.24	12365.74	-497.21	388.78	87.08	1320.41	151.44	15.71	PASS	
13229.00	12344.32	-664.51	-928.90	13174.09	12368.37	-622.93	393.66	88.20	1323.43	153.67	15.52	PASS	
13329.00	12347.20	-764.47	-928.11	13262.88	12367.20	-711.65	398.66	87.72	1325.87	155.66	15.35	PASS	
13429.00	12350.08	-864.42	-927.33	13332.27	12368.95	-780.95	400.14	86.40	1330.19	157.53	15.22	PASS	
13529.00	12352.96	-964.38	-926.54	13474.91	12365.56	-923.38	407.67	88.24	1334.90	161.02	14.94	PASS	
13629.00	12355.84	-1064.33	-925.75	13600.17	12361.81	-1048.56	409.50	89.32	1335.35	164.53	14.62	PASS	
13729.00	12358.72	-1164.29	-924.97	13693.70	12358.08	-1142.01	410.81	89.04	1335.96	167.60	14.36	PASS	
13829.00	12361.60	-1264.24	-924.18	13835.24	12349.78	-1283.28	410.30	90.62	1334.67	172.05	13.98	PASS	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Leo Thorness 13-24S-33E AR 211H Offset Wellpath: [offset] Leo Thorness 13-24S-33E AR 211H awp 165' - 16995' Proj: 17045'

Ref MD [ft]	Ref YVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset YVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13929.00	12364.48	-1364.20	-923.39	13919.19	12346.35	-1367.16	409.68	90.13	1333.20	175.31	13.70	PASS
14029.00	12367.35	-1464.15	-922.61	14014.94	12343.68	-1462.87	409.59	89.95	1332.41	179.02	13.41	PASS
14129.00	12370.23	-1564.11	-921.82	14119.20	12340.50	-1567.09	409.65	90.13	1331.80	183.14	13.10	PASS
14229.00	12373.11	-1664.07	-921.03	14232.82	12340.12	-1680.70	408.64	90.72	1330.18	187.69	12.77	PASS
14329.00	12375.99	-1764.02	-920.24	14342.52	12339.63	-1790.38	406.92	91.14	1327.92	192.29	12.44	PASS
14429.00	12378.87	-1863.98	-919.46	14450.45	12338.17	-1898.26	404.37	91.48	1324.90	196.98	12.12	PASS
14529.00	12381.75	-1963.93	-918.67	14545.42	12339.36	-1993.20	402.08	91.27	1321.75	201.42	11.82	PASS
14572.36	12383.00	-2007.27	-918.33	14586.09	12340.22	-2033.85	401.25	91.15	1320.54	203.38	11.70	PASS
14615.47	12384.00	-2050.37	-917.99	14626.56	12341.40	-2074.30	400.51	91.04	1319.41	205.34	11.57	PASS
14659.00	12384.24	-2093.50	-917.88	14639.27	12341.84	-2088.99	400.30	91.00	1318.07	206.96	11.64	PASS
14729.00	12385.99	-2163.88	-917.10	14736.52	12345.70	-2184.16	398.84	90.88	1316.71	210.71	11.26	PASS
14829.00	12387.74	-2263.86	-916.31	14830.32	12349.96	-2277.85	397.73	90.61	1314.65	215.46	10.99	PASS
14929.00	12389.49	-2363.84	-915.52	14908.68	12352.74	-2356.16	397.57	89.67	1313.63	219.75	10.77	PASS
15029.00	12391.24	-2463.82	-914.74	14996.04	12353.29	-2443.51	398.65	89.11	1314.10	224.39	10.55	PASS
15072.44	12392.00	-2507.26	-914.40	15035.37	12353.65	-2482.84	399.32	88.94	1314.60	228.48	10.45	PASS
15078.42	12392.11	-2513.24	-914.35	15040.20	12353.59	-2487.66	399.41	88.89	1314.57	226.75	10.44	PASS
15129.00	12393.07	-2563.80	-913.95	15081.01	12354.05	-2528.46	400.37	88.46	1315.37	229.02	10.35	PASS
15229.00	12394.98	-2663.78	-913.16	15203.99	12354.99	-2651.39	403.44	89.46	1317.27	235.14	10.09	PASS
15329.00	12396.89	-2763.76	-912.38	15300.48	12353.27	-2747.86	404.23	89.31	1317.43	240.34	9.87	PASS
15429.00	12398.80	-2863.74	-911.59	15405.52	12363.02	-2852.88	405.35	89.53	1317.78	246.94	9.65	PASS
15529.00	12400.70	-2963.72	-910.80	15495.80	12355.83	-2943.11	406.52	89.10	1318.25	251.06	9.46	PASS
15629.00	12402.61	-3063.70	-910.02	15603.68	12361.32	-3050.84	407.91	89.44	1318.64	256.93	9.24	PASS
15729.00	12404.52	-3163.68	-909.23	15678.08	12365.41	-3125.11	409.49	88.33	1319.86	261.52	9.09	PASS
15829.00	12406.43	-3263.65	-908.44	15773.81	12369.26	-3220.70	412.65	88.14	1322.31	267.01	8.92	PASS
15929.00	12408.33	-3363.63	-907.65	15885.05	12371.21	-3331.88	415.84	88.83	1324.38	273.16	8.73	PASS
16029.00	12410.24	-3463.61	-906.87	15984.29	12373.81	-3431.06	418.27	88.59	1326.04	278.91	8.56	PASS
16129.00	12412.15	-3563.58	-906.08	16077.95	12378.21	-3524.58	420.97	88.32	1328.06	284.45	8.41	PASS
16229.00	12414.06	-3663.57	-905.29	16187.30	12385.61	-3633.63	424.08	88.71	1330.01	290.72	8.24	PASS
16329.00	12415.96	-3763.55	-904.51	16321.88	12392.69	-3768.00	425.80	90.19	1330.51	298.03	8.04	PASS
16429.00	12417.87	-3863.53	-903.72	16444.41	12398.21	-3860.47	424.25	91.16	1328.42	304.79	7.86	PASS



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Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Leo Thorsness 13-24S-33E AR 211H Offset Wellpath: [offset] Leo Thorsness 13-24S-33E AR 211H awp 195' - 16995' Proj: 17045'												
Facility	[offset] Leo Thorsness 13-24S-33E AR 211H	Slot	[offset] Leo Thorsness 13-24S-33E AR 211H	Well	[offset] Leo Thorsness 13-24S-33E AR 211H	Threshold Value=1.50	= Interpolated/extrapolated station					
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C.C. Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16529.00	12419.78	-3963.51	-902.93	16560.04	12399.42	-4006.01	421.03	91.84	1324.81	311.29	7.66	PASS
16629.00	12421.69	-4063.48	-902.15	16661.00	12400.84	-4106.92	418.01	91.88	1321.03	317.30	7.50	PASS
16729.00	12423.59	-4163.46	-901.36	16775.67	12402.17	-4221.48	413.43	92.53	1316.24	323.79	7.32	PASS
16829.00	12425.50	-4263.44	-900.57	16873.61	12403.88	-4319.31	409.11	92.44	1311.05	329.76	7.16	PASS
16929.00	12427.41	-4363.42	-899.79	16971.64	12406.51	-4417.15	405.15	92.36	1306.17	335.77	7.01	PASS
17029.00	12429.32	-4463.40	-899.00	17045.00	12414.27	-4490.22	402.21	91.18	1301.57	340.76	6.88	PASS
17064.78	12430.00	-4499.18	-898.72	17045.00	12414.27	-4490.22	402.21	89.61	1301.05	341.53	6.86	PASS

POSITIONAL UNCERTAINTY - Offset Wellbore: [offset] Leo Thorsness 13-24S-33E AR 211H Offset Wellpath: [offset] Leo Thorsness 13-24S-33E AR 211H awp 195' - 16995' Proj: 17045'				
Slot Surface Uncertainty @1SD	Horizontal	0.000ft	Vertical	0.000ft
Facility Surface Uncertainty @1SD	Horizontal	3.300ft	Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: [offset] Leo Thorsness 13-24S-33E AR 211H Offset Wellpath: [offset] Leo Thorsness 13-24S-33E AR 211H awp 195' - 16995' Proj: 17045'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.375in Casing	0.00	1384.00	1384.00	2.00	1382.94	0.00	18.29	19.54	26.82
9.625in Casing	0.00	5254.00	5254.00	2.00	5243.81	0.00	18.29	76.10	78.06
7.625in Casing	0.00	11660.00	11660.00	2.00	11638.56	0.00	18.29	151.58	125.61
7in Casing	0.00	12596.00	12596.00	2.00	12300.02	0.00	18.29	-14.80	130.01
4.5in Casing	0.00	17034.00	17034.00	2.00	12384.38	0.00	18.29	-1365.28	131.87



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

WELLPATH COMPOSITION - Offset Wellbore: [offset] Leo Thorsness 13-24S-33E AR 211H Offset Wellpath: [offset] Leo Thorsness 13-24S-33E AR 211H awp 195' - 16995' Proj: 17045'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	16995.00	ISCWSA MWD, Rev. 4 (Standard)	Imported MS Energy MWD surveys from 195' - 16995'	[offset] Leo Thorsness 13-24S-33E AR 211H
16995.00	17045.00	Blind Drilling (std)	Projection to bit	[offset] Leo Thorsness 13-24S-33E AR 211H

OFFSET WELLPATH REFERENCE - Offset Wellbore: [offset] Leo Thorsness 13-24S-33E AR 211H Offset Wellpath: [offset] Leo Thorsness 13-24S-33E AR 211H awp 195' - 16995' Proj: 17045'	
MD Reference: Rig: Patterson 810 (KB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Ray Batty Federal Com No. 004H Offset Wellpath: [offset] Ray Batty Federal Com No. 004H swp 100' - 15493' Prop 15556'												
Facility: [offset] Ray Batty Federal Com No. 004H				Slot: [offset] Ray Batty Federal Com No. 004H				Well: [offset] Ray Batty Federal Com No. 004H				Threshold Value=1.80
Ref MD [m]	Ref TVD [m]	Ref North [m]	Ref East [m]	Offset MD [m]	Offset TVD [m]	Offset North [m]	Offset East [m]	Horiz Bearing [°]	C-C Clear Dist [m]	ACR MASD [m]	Sep Ratio	ACR Status
29.00	29.00	0.00	0.00	19.66	28.28	838.72	-4616.11	280.30	4691.68	24.32	355.39	PASS
129.00†	129.00	0.00	0.00	88.64	97.24	838.88	-4616.32	280.30	4692.03	24.34	355.05	PASS
229.00†	229.00	0.00	0.00	187.90	196.49	839.22	-4617.00	280.30	4692.77	24.42	353.92	PASS
329.00†	329.00	0.00	0.00	295.59	304.19	839.30	-4617.66	280.30	4693.38	24.55	352.01	PASS
429.00†	429.00	0.00	0.00	393.10	401.89	839.33	-4618.20	280.30	4693.93	24.74	349.41	PASS
529.00†	529.00	0.00	0.00	499.75	508.34	839.32	-4618.76	280.30	4694.45	24.97	346.04	PASS
629.00†	629.00	0.00	0.00	598.93	607.52	839.54	-4619.17	280.30	4694.90	25.25	342.20	PASS
729.00†	729.00	0.00	0.00	698.77	707.36	840.01	-4619.56	280.31	4695.36	25.57	337.92	PASS
829.00†	829.00	0.00	0.00	803.24	811.83	840.52	-4619.90	280.31	4695.77	25.92	333.18	PASS
929.00†	929.00	0.00	0.00	911.75	920.34	840.92	-4620.12	280.32	4696.04	26.32	328.06	PASS
1029.00†	1029.00	0.00	0.00	1009.95	1018.54	841.12	-4620.29	280.32	4696.24	26.75	322.66	PASS
1129.00†	1129.00	0.00	0.00	1105.18	1113.76	841.29	-4620.52	280.32	4696.51	27.23	316.93	PASS
1229.00†	1229.00	0.00	0.00	1199.12	1207.71	841.55	-4620.84	280.32	4696.90	27.74	311.04	PASS
1329.00†	1329.00	0.00	0.00	1294.82	1303.40	841.86	-4621.27	280.32	4697.40	28.28	304.96	PASS
1429.00†	1429.00	0.00	0.00	1391.34	1399.92	842.19	-4621.78	280.33	4697.88	28.87	300.79	PASS
1529.00†	1529.00	0.00	0.00	1479.43	1488.00	842.65	-4622.36	280.33	4698.72	28.72	298.65	PASS
1629.00†	1629.00	0.00	0.00	1558.40	1566.97	843.30	-4623.10	280.34	4699.79	28.94	296.39	PASS
1729.00†	1729.00	0.00	0.00	1653.56	1662.12	844.28	-4624.36	280.35	4701.27	29.24	293.42	PASS
1829.00†	1829.00	0.00	0.00	1763.96	1772.50	845.28	-4625.62	280.36	4702.55	29.61	289.77	PASS
1929.00†	1929.00	0.00	0.00	1866.10	1874.63	846.38	-4626.63	280.37	4703.72	29.96	286.14	PASS
2000.00	2000.00	0.00	0.00	1936.63	1945.16	847.15	-4627.31	280.38	4704.54	30.27	283.50	PASS
2029.00†	2029.00	0.03	-0.07	1965.19	1973.71	847.48	-4627.59	280.38	4704.81	30.39	282.40	PASS
2129.00†	2128.99	0.52	-1.36	2083.61	2092.12	848.74	-4628.62	280.39	4704.51	30.88	277.85	PASS
2229.00†	2228.94	1.64	-4.27	2196.21	2204.72	849.58	-4629.18	280.39	4702.06	31.40	273.03	PASS
2329.00†	2328.82	3.38	-8.82	2292.02	2300.53	850.18	-4629.61	280.39	4697.83	31.91	268.34	PASS
2429.00†	2428.60	5.75	-14.99	2388.84	2397.34	850.74	-4630.14	280.38	4691.97	32.47	263.37	PASS
2529.00†	2528.28	8.75	-22.78	2487.07	2495.57	851.39	-4630.70	280.36	4684.44	32.92	259.25	PASS
2629.00†	2627.74	12.36	-32.20	2587.49	2595.98	852.15	-4631.27	280.35	4675.22	33.26	256.05	PASS
2729.00†	2727.03	16.60	-43.24	2684.98	2693.47	852.96	-4631.81	280.33	4664.29	33.62	252.68	PASS
2829.00†	2828.11	21.48	-66.89	2798.90	2807.38	853.91	-4632.31	280.31	4651.66	34.04	248.88	PASS



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Ray Batty Federal Com No. 004H Offset Wellpath: [offset] Ray Batty Federal Com No. 004H awp 100' - 15493' Proj: 15558'													
Facility [offset] Ray Batty Federal Com No. 004H				Slot [offset] Ray Batty Federal Com No. 004H				Well [offset] Ray Batty Federal Com No. 004H				Threshold Value=1.80	Interpolated/extrapolated station
Ref MD [m]	Ref TVD [m]	Ref North [m]	Ref East [m]	Offset MD [m]	Offset TVD [m]	Offset North [m]	Offset East [m]	Horiz Bearing [°]	C-C Clear Dist [m]	ACR MASO [m]	Sep Ratio	ACR Status	
2629.00+	2624.93	26.93	-70.16	2907.56	2916.04	854.63	-4632.50	280.28	4636.82	34.45	245.14	PASS	
2961.54	2957.03	28.85	-75.15	2938.33	2946.81	854.77	-4632.54	280.27	4631.64	34.57	243.94	PASS	
3029.00+	3023.55	32.88	-85.67	3002.22	3010.70	855.03	-4632.65	280.25	4620.73	34.83	241.54	PASS	
3129.00+	3122.14	38.87	-101.26	3102.13	3110.61	855.55	-4632.83	280.22	4604.59	35.25	237.78	PASS	
3229.00+	3220.74	44.88	-118.86	3215.07	3223.55	856.14	-4632.82	280.18	4588.26	35.66	234.23	PASS	
3329.00+	3319.33	50.84	-132.45	3318.47	3326.95	856.81	-4632.56	280.15	4571.72	36.02	231.01	PASS	
3429.00+	3417.93	56.83	-148.04	3414.13	3422.60	857.46	-4632.33	280.12	4555.20	36.40	227.77	PASS	
3529.00+	3516.52	62.81	-163.64	3514.79	3523.26	858.21	-4632.05	280.09	4538.66	36.81	224.36	PASS	
3629.00+	3615.12	68.80	-179.23	3607.97	3616.44	858.98	-4631.84	280.06	4522.18	37.25	220.91	PASS	
3729.00+	3713.71	74.78	-194.82	3715.14	3723.60	859.81	-4631.54	280.03	4505.64	37.72	217.30	PASS	
3829.00+	3812.31	80.77	-210.42	3813.02	3821.48	860.61	-4631.20	280.00	4489.04	38.19	213.81	PASS	
3929.00+	3910.90	86.76	-226.01	3914.10	3922.56	861.38	-4630.80	279.97	4472.40	38.68	210.28	PASS	
4029.00+	4009.50	92.74	-241.61	4003.41	4011.86	861.54	-4630.64	279.94	4455.86	39.18	206.81	PASS	
4129.00+	4108.09	98.73	-257.20	4122.08	4130.53	860.59	-4630.41	279.88	4439.13	39.74	203.11	PASS	
4229.00+	4206.68	104.72	-272.79	4221.12	4229.66	859.33	-4630.15	279.83	4422.27	40.28	199.61	PASS	
4329.00+	4305.28	110.70	-288.39	4331.35	4339.78	857.76	-4629.66	279.78	4405.22	40.84	196.06	PASS	
4429.00+	4403.88	116.69	-303.98	4468.59	4476.99	855.08	-4628.69	279.69	4387.89	41.45	192.38	PASS	
4529.00+	4502.47	122.67	-319.58	4636.88	4645.18	850.64	-4625.04	279.60	4368.90	42.09	188.60	PASS	
4629.00+	4601.07	128.66	-335.17	4744.00	4752.20	847.53	-4621.83	279.52	4349.14	42.67	185.20	PASS	
4729.00+	4699.66	134.65	-350.76	4833.30	4841.48	845.88	-4619.06	279.46	4329.43	43.23	181.92	PASS	
4829.00+	4798.26	140.63	-366.36	4915.29	4923.38	844.40	-4616.68	279.40	4310.02	43.81	178.71	PASS	
4929.00+	4896.85	146.62	-381.95	4991.20	4999.27	843.42	-4614.81	279.35	4291.05	44.40	175.55	PASS	
5029.00+	4995.45	152.60	-397.55	5068.69	5076.74	842.55	-4613.27	279.30	4272.59	45.00	172.41	PASS	
5129.00+	5094.04	158.58	-413.14	5148.94	5156.97	841.81	-4612.03	279.24	4254.58	45.63	169.30	PASS	
5229.00+	5192.64	164.56	-428.73	5235.91	5243.93	840.91	-4611.03	279.19	4236.94	46.29	166.18	PASS	
5329.00+	5291.23	170.56	-444.33	5332.02	5340.04	840.24	-4609.99	279.13	4219.43	46.79	163.10	PASS	
5429.00+	5389.83	176.55	-459.92	5426.94	5434.95	839.80	-4608.97	279.08	4201.96	47.48	160.06	PASS	
5529.00+	5488.42	182.53	-475.52	5518.90	5526.91	839.27	-4608.16	279.03	4184.68	48.18	157.07	PASS	
5629.00+	5587.02	188.52	-491.11	5623.89	5631.88	838.73	-4607.14	278.98	4167.32	48.92	154.05	PASS	
5729.00+	5685.61	194.51	-506.70	5721.41	5729.41	838.23	-4606.22	278.92	4149.66	49.66	151.11	PASS	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Ray Batty Federal Com No. 004H Offset Wellpath: [offset] Ray Batty Federal Com No. 004H awp 100' - 15493' Proj: 15558'

Ref MD [N]	Ref YVD [N]	Ref North [N]	Ref East [N]	Offset MD [N]	Offset YVD [N]	Offset North [N]	Offset East [N]	Horiz Bearing [°]	C-C Clear Dist [N]	ACR MASD [N]	Sep Ratio	ACR Status
5829.00+	5784.21	200.49	-522.30	5834.01	5841.99	837.50	-4604.87	278.87	4132.37	50.44	148.14	PASS
5929.00+	5882.80	206.48	-537.89	5932.83	5940.80	837.09	-4603.54	278.82	4114.68	51.21	145.28	PASS
6029.00+	5981.40	212.46	-553.49	6031.80	6039.76	836.37	-4602.21	278.76	4096.93	51.99	142.47	PASS
6129.00+	6079.99	218.45	-569.08	6129.37	6137.32	835.90	-4600.93	278.71	4079.26	52.78	139.71	PASS
6229.00+	6178.58	224.44	-584.67	6232.81	6240.76	835.64	-4599.37	278.66	4061.43	53.60	136.97	PASS
6329.00+	6277.18	230.42	-600.27	6325.80	6333.73	835.51	-4598.05	278.61	4043.71	54.41	134.34	PASS
6429.00+	6375.78	236.41	-615.86	6426.26	6434.17	835.57	-4596.53	278.56	4025.93	55.24	131.72	PASS
6529.00+	6474.37	242.39	-631.46	6513.55	6521.46	835.63	-4595.40	278.51	4008.37	56.06	129.22	PASS
6629.00+	6572.97	248.38	-647.05	6620.86	6628.76	835.79	-4593.94	278.46	3990.75	56.93	126.68	PASS
6729.00+	6671.56	254.36	-662.64	6712.24	6720.13	836.02	-4592.69	278.42	3973.16	57.78	124.28	PASS
6829.00+	6770.16	260.35	-678.24	6804.99	6812.87	836.23	-4591.59	278.37	3955.73	58.64	121.89	PASS
6929.00+	6868.75	266.34	-693.83	6903.11	6910.99	836.63	-4590.45	278.33	3938.36	59.52	119.56	PASS
7029.00+	6967.35	272.32	-709.42	6987.11	6994.99	837.16	-4589.62	278.28	3921.19	60.37	117.35	PASS
7062.12	7000.00	274.30	-714.59	7018.38	7026.25	837.35	-4589.38	278.27	3915.58	60.67	116.61	PASS
7129.00+	7066.95	278.88	-724.89	7087.48	7095.36	837.66	-4588.84	278.23	3904.33	61.27	115.12	PASS
7219.28	7154.97	285.66	-738.16	7174.99	7182.85	837.95	-4588.14	278.16	3889.49	62.10	113.16	PASS
7229.00+	7184.55	286.48	-739.56	7184.31	7192.18	837.99	-4588.07	278.15	3887.92	62.18	112.95	PASS
7329.00+	7283.15	294.93	-753.97	7280.68	7288.54	838.27	-4587.36	278.07	3871.80	63.11	110.83	PASS
7429.00+	7361.74	303.39	-768.37	7372.69	7380.75	838.23	-4586.83	277.97	3855.78	64.03	108.77	PASS
7529.00+	7480.34	311.85	-782.77	7483.34	7491.20	837.91	-4586.22	277.89	3839.78	65.00	106.89	PASS
7629.00+	7558.93	320.31	-797.18	7587.76	7595.61	836.73	-4585.43	277.76	3823.47	65.96	104.69	PASS
7729.00+	7657.53	328.76	-811.58	7686.27	7694.10	835.10	-4584.69	277.64	3807.11	66.91	102.76	PASS
7829.00+	7756.12	337.22	-825.98	7796.75	7804.56	833.45	-4583.68	277.52	3790.63	67.89	100.83	PASS
7929.00+	7854.72	345.68	-840.39	7892.86	7900.66	832.06	-4582.65	277.40	3774.02	68.85	98.99	PASS
8029.00+	7953.31	354.13	-854.79	8003.24	8011.02	830.49	-4581.34	277.28	3767.32	69.85	97.14	PASS
8119.98	8043.01	361.83	-867.89	8112.95	8120.71	829.16	-4579.46	277.18	3741.68	70.79	95.45	PASS
8129.00+	8051.91	362.59	-869.19	8121.28	8129.03	829.07	-4579.30	277.17	3740.12	70.88	95.29	PASS
8229.00+	8150.67	370.53	-882.71	8215.88	8223.61	828.02	-4577.54	277.06	3723.76	71.86	93.57	PASS
8329.00+	8249.69	377.60	-894.75	8319.10	8326.81	827.01	-4575.52	276.96	3708.91	72.86	91.91	PASS
8429.00+	8348.94	383.78	-908.30	8409.58	8417.26	826.07	-4573.86	276.87	3695.76	73.83	90.38	PASS



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Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Ray Batty Federal Com No. 004H Offset Wellpath: [offset] Ray Batty Federal Com No. 004H awp 100' - 15493' Proj: 15556'												
Facility [offset] Ray Batty Federal Com No. 004H				Slot [offset] Ray Batty Federal Com No. 004H				Well [offset] Ray Batty Federal Com No. 004H				Threshold Value=1.80
Ref MD [m]	Ref TVD [m]	Ref North [m]	Ref East [m]	Offset MD [m]	Offset TVD [m]	Offset North [m]	Offset East [m]	Horiz Bearing [°]	C-C Clear Dist [m]	ACR MASD [m]	Sep Ratio	ACR Status
8529.00+	8448.38	389.10	-914.35	8507.96	8515.62	825.25	-4572.14	276.80	3684.32	74.81	88.92	PASS
8629.00+	8548.00	393.54	-921.90	8609.47	8617.11	824.72	-4570.31	276.74	3674.45	75.79	87.53	PASS
8729.00+	8647.75	397.09	-927.95	8711.26	8718.89	824.20	-4568.39	276.69	3666.10	76.76	86.22	PASS
8829.00+	8747.61	399.78	-932.50	8799.57	8807.18	823.79	-4566.85	276.65	3659.49	77.69	85.03	PASS
8929.00+	8847.55	401.58	-935.55	8894.57	8892.16	823.80	-4565.87	276.63	3654.83	78.61	83.93	PASS
9029.00+	8947.53	402.46	-937.09	8977.81	8985.41	823.28	-4564.65	276.62	3652.08	79.54	82.89	PASS
9081.47	9000.00	402.58	-937.30	9028.98	9036.58	823.16	-4564.15	276.62	3651.33	80.01	82.37	PASS
9129.00+	9047.53	402.58	-937.30	9076.26	9083.86	822.99	-4563.69	276.61	3650.86	80.43	81.93	PASS
9229.00+	9147.53	402.58	-937.30	9177.29	9184.88	822.47	-4562.73	276.61	3649.85	81.32	81.01	PASS
9329.00+	9247.53	402.58	-937.30	9265.08	9272.68	821.81	-4561.60	276.80	3648.74	82.23	80.08	PASS
9429.00+	9347.53	402.58	-937.30	9381.06	9388.63	821.45	-4560.47	276.60	3647.54	83.13	79.20	PASS
9529.00+	9447.53	402.58	-937.30	9449.72	9457.29	821.39	-4559.93	276.60	3646.77	83.91	78.44	PASS
9564.00+	9472.53	402.58	-937.30	9462.50	9470.07	821.43	-4559.90	276.60	3646.74	84.09	78.27	PASS
9629.00+	9547.53	402.58	-937.30	9517.15	9524.72	821.75	-4560.06	276.60	3647.01	84.68	77.75	PASS
9729.00+	9647.53	402.58	-937.30	9605.12	9612.68	822.64	-4560.88	276.61	3647.78	85.40	77.09	PASS
9829.00+	9747.53	402.58	-937.30	9679.93	9687.48	823.36	-4561.54	276.62	3649.08	86.11	76.47	PASS
9929.00+	9847.53	402.58	-937.30	9749.53	9757.07	824.36	-4562.85	276.64	3651.13	86.82	75.89	PASS
10029.00+	9947.53	402.58	-937.30	9815.79	9823.29	825.83	-4564.63	276.65	3654.05	87.53	75.34	PASS
10129.00+	10047.53	402.58	-937.30	9877.90	9885.33	827.52	-4566.88	276.68	3657.97	88.23	74.82	PASS
10229.00+	10147.53	402.58	-937.30	9949.83	9957.25	828.80	-4570.16	276.71	3662.83	88.95	74.31	PASS
10329.00+	10247.53	402.58	-937.30	10050.90	10058.03	833.54	-4575.18	276.76	3668.22	89.72	73.78	PASS
10429.00+	10347.53	402.58	-937.30	10198.67	10205.54	839.64	-4581.19	276.84	3672.75	90.57	73.17	PASS
10529.00+	10447.53	402.58	-937.30	10336.60	10343.31	844.94	-4585.14	276.91	3676.04	91.43	72.55	PASS
10629.00+	10547.53	402.58	-937.30	10475.70	10482.29	850.22	-4587.83	276.99	3678.46	92.30	71.91	PASS
10729.00+	10647.53	402.58	-937.30	10548.03	10554.54	853.60	-4589.97	277.04	3680.58	92.61	71.71	PASS
10829.00+	10747.53	402.58	-937.30	10734.18	10735.48	890.79	-4586.08	277.82	3681.32	93.45	71.07	PASS
10929.00+	10847.53	402.58	-937.30	10775.42	10772.91	907.99	-4584.16	277.89	3682.47	94.06	70.64	PASS
11029.00+	10947.53	402.58	-937.30	10799.50	10794.13	919.31	-4583.23	278.07	3685.56	94.68	70.23	PASS
11129.00+	11047.53	402.58	-937.30	10829.51	10819.77	934.87	-4582.34	278.31	3689.74	95.30	69.88	PASS
11229.00+	11147.53	402.58	-937.30	10863.41	10847.51	954.33	-4581.46	278.61	3697.88	96.01	69.56	PASS



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Ray Batty Federal Com No. 004H Offset Wellpath: [offset] Ray Batty Federal Com No. 004H awp 100' - 15493' Prop: 15556'												
Ref MD [m]	Ref TVD [m]	Ref North [m]	Ref East [m]	Offset MD [m]	Offset TVD [m]	Offset North [m]	Offset East [m]	Horiz Bearing [°]	C-C Clear Dist [m]	ACR MASD [m]	Sep Ratio	ACR Status
11329.00	11247.53	402.58	-937.30	10890.31	10868.46	971.18	-4580.81	278.87	3707.04	96.53	69.28	PASS
11429.00	11347.53	402.58	-937.30	10917.70	10888.74	989.57	-4580.23	279.15	3718.33	97.15	69.05	PASS
11529.00	11447.53	402.58	-937.30	10952.39	10912.83	1014.52	-4579.44	279.54	3731.69	97.79	68.85	PASS
11629.00	11547.53	402.58	-937.30	10974.94	10927.56	1031.58	-4578.83	279.80	3747.09	98.41	68.69	PASS
11729.00	11647.53	402.58	-937.30	10991.15	10937.78	1044.17	-4578.49	279.99	3764.79	99.01	68.60	PASS
11829.00	11747.53	402.58	-937.30	11000.88	10943.71	1051.87	-4578.35	280.11	3784.83	99.59	68.56	PASS
11834.31	11752.84	402.58	-937.30	11001.31	10943.97	1052.22	-4578.35	280.12	3785.96	99.62	68.56	PASS
11929.00	11847.10	394.77	-937.24	11008.03	10947.97	1057.61	-4578.31	280.32	3808.57	100.10	68.64	PASS
12029.00	11943.80	369.82	-937.04	11012.77	10950.74	1061.46	-4578.32	280.76	3837.11	100.52	68.87	PASS
12129.00	12034.71	328.46	-936.72	11015.16	10952.11	1063.40	-4578.33	281.41	3869.66	100.84	69.22	PASS
12229.00	12117.04	271.93	-936.27	11015.27	10952.18	1063.51	-4578.33	282.26	3904.88	101.15	69.64	PASS
12329.00	12188.32	201.97	-935.72	11013.34	10951.07	1061.93	-4578.32	283.28	3941.93	101.50	70.06	PASS
12429.00	12246.36	120.70	-935.08	11009.58	10948.87	1058.86	-4578.31	284.44	3979.54	101.97	70.40	PASS
12529.00	12289.40	30.58	-934.37	11004.21	10945.70	1054.53	-4578.33	285.70	4016.52	102.60	70.62	PASS
12629.00	12316.15	-68.64	-933.61	10997.47	10941.84	1049.15	-4578.39	287.01	4051.72	103.43	70.87	PASS
12634.31	12317.09	-70.87	-933.57	10997.08	10941.40	1048.84	-4578.39	287.08	4053.52	103.47	70.67	PASS
12729.00	12328.89	-164.78	-932.83	10986.78	10935.04	1040.75	-4578.57	288.30	4085.04	104.39	70.59	PASS
12773.48	12331.20	-209.19	-932.48	10980.63	10931.17	1035.97	-4578.70	288.86	4099.44	104.87	70.51	PASS
12829.00	12332.80	-264.69	-932.05	10972.94	10926.28	1030.05	-4578.87	289.55	4117.52	105.52	70.39	PASS
12929.00	12335.68	-364.84	-931.28	10958.62	10918.90	1019.10	-4579.27	290.77	4151.68	107.00	69.99	PASS
13029.00	12338.56	-464.60	-930.47	10940.72	10904.92	1005.94	-4579.73	291.95	4187.47	108.26	69.77	PASS
13129.00	12341.44	-564.56	-929.69	10925.75	10894.49	995.21	-4580.06	293.14	4225.13	109.70	69.47	PASS
13229.00	12344.32	-664.51	-928.90	10913.86	10885.97	986.92	-4580.31	294.34	4264.60	111.29	69.11	PASS
13329.00	12347.20	-764.47	-928.11	10902.63	10877.72	979.30	-4580.54	295.52	4305.85	113.01	68.72	PASS
13429.00	12350.08	-864.42	-927.33	10882.88	10870.27	972.72	-4580.78	296.70	4348.85	114.82	68.31	PASS
13529.00	12352.96	-964.38	-926.54	10863.57	10863.31	966.84	-4580.96	297.85	4393.57	116.72	67.88	PASS
13629.00	12355.84	-1064.33	-925.75	10874.91	10856.59	961.38	-4581.17	298.99	4439.97	118.69	67.46	PASS
13729.00	12358.72	-1164.29	-924.97	10866.53	10849.98	956.22	-4581.38	300.11	4488.00	120.69	67.06	PASS
13829.00	12361.60	-1264.24	-924.18	10857.91	10843.11	951.04	-4581.60	301.20	4537.62	122.73	66.67	PASS
13929.00	12364.48	-1364.20	-923.38	10849.72	10836.47	946.23	-4581.81	302.27	4588.78	124.80	66.30	PASS



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Ray Batty Federal Com No. 004H Offset Wellpath: [offset] Ray Batty Federal Com No. 004H awp 100' - 15493' Proj: 15556'												
Facility: [offset] Ray Batty Federal Com No. 004H Slot: [offset] Ray Batty Federal Com No. 004H Well: [offset] Ray Batty Federal Com No. 004H				Threshold Value=1.00 † = interpolated/extrapolated station								
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14029.00H	12367.35	-1464.15	-922.61	10841.93	10830.10	941.77	-4582.02	303.32	4641.44	126.87	65.97	PASS
14129.00H	12370.23	-1564.11	-921.82	10834.57	10824.00	937.65	-4582.21	304.35	4695.54	128.95	65.66	PASS
14229.00H	12373.11	-1664.07	-921.03	10827.70	10818.25	933.89	-4582.39	305.36	4751.06	131.02	65.38	PASS
14329.00H	12375.99	-1764.02	-920.24	10821.13	10812.71	930.37	-4582.58	306.34	4807.94	133.08	65.14	PASS
14429.00H	12378.87	-1863.98	-919.45	10814.85	10807.36	927.07	-4582.76	307.30	4865.14	135.11	64.83	PASS
14529.00H	12381.75	-1963.93	-918.67	10808.84	10802.21	923.98	-4582.94	308.24	4925.63	137.13	64.76	PASS
14572.36	12383.00	-2007.27	-918.33	10806.31	10800.04	922.70	-4583.01	308.64	4951.81	138.00	64.69	PASS
14615.47	12384.00	-2050.37	-917.99	10803.97	10798.01	921.53	-4583.08	309.04	4977.99	138.85	64.64	PASS
14629.00H	12384.24	-2063.90	-917.88	10803.29	10797.42	921.19	-4583.11	309.16	4986.24	139.12	64.62	PASS
14729.00H	12385.99	-2163.86	-917.10	10798.35	10793.13	919.74	-4583.27	310.06	5047.83	141.09	64.50	PASS
14829.00H	12387.74	-2263.86	-916.31	10793.58	10788.97	916.43	-4583.43	310.93	5110.58	143.02	64.42	PASS
14929.00H	12389.49	-2363.84	-915.52	10789.00	10784.95	914.24	-4583.60	311.79	5174.47	144.91	64.37	PASS
15003.92H	12390.80	-2438.75	-914.93	10785.67	10782.01	912.68	-4583.73	312.41	5223.06	146.32	64.35	PASS
15029.00H	12391.24	-2463.82	-914.74	10784.58	10781.05	912.17	-4583.77	312.62	5239.45	146.77	64.35	PASS
15072.44	12392.00	-2507.26	-914.40	10782.71	10779.39	911.30	-4583.85	312.97	5268.01	147.57	64.36	PASS
15078.42	12392.11	-2513.24	-914.35	10782.45	10779.16	911.18	-4583.86	313.02	5271.96	147.68	64.36	PASS
15129.00H	12393.07	-2563.80	-913.95	10780.32	10777.27	910.20	-4583.95	313.43	5305.51	148.59	64.37	PASS
15229.00H	12394.98	-2663.78	-913.16	10776.21	10773.61	908.34	-4584.12	314.22	5372.60	150.37	64.41	PASS
15329.00H	12396.89	-2763.76	-912.38	10771.63	10769.52	906.30	-4584.32	314.99	5440.67	152.11	64.48	PASS
15429.00H	12398.80	-2863.74	-911.59	10766.48	10764.88	904.03	-4584.56	315.73	5509.67	153.90	64.57	PASS
15529.00H	12400.70	-2963.72	-910.80	10761.48	10760.39	901.89	-4584.78	316.46	5579.58	155.46	64.70	PASS
15629.00H	12402.61	-3063.70	-910.02	10756.67	10756.04	899.86	-4585.01	317.16	5650.35	157.08	64.84	PASS
15729.00H	12404.52	-3163.68	-909.23	10752.04	10751.83	897.93	-4585.22	317.85	5721.97	158.65	65.01	PASS
15829.00H	12406.43	-3263.65	-908.44	10747.56	10747.75	896.09	-4585.43	318.52	5794.39	160.19	65.20	PASS
15929.00H	12408.33	-3363.63	-907.65	10743.24	10743.80	894.35	-4585.64	319.18	5867.60	161.69	65.41	PASS
16029.00H	12410.24	-3463.61	-906.87	10738.82	10739.75	892.60	-4585.85	319.82	5941.56	163.15	65.64	PASS
16129.00H	12412.15	-3563.59	-906.08	10734.45	10735.73	890.90	-4586.06	320.44	6016.24	164.57	65.89	PASS
16229.00H	12414.06	-3663.57	-905.29	10730.23	10731.84	889.28	-4586.27	321.04	6091.63	165.95	66.16	PASS
16329.00H	12415.96	-3763.55	-904.51	10726.14	10728.06	887.74	-4586.47	321.64	6167.68	167.30	66.45	PASS
16429.00H	12417.87	-3863.53	-903.72	10722.19	10724.39	886.26	-4586.67	322.21	6244.40	168.62	66.75	PASS



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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

CLEARANCE DATA - Offset Wellbore: [offset] Ray Batty Federal Com No. 004H Offset Wellpath: [offset] Ray Batty Federal Com No. 004H awp 100' - 15493' Proj: 15556'

Facility [offset] Ray Batty Federal Com No. 004H			Slot [offset] Ray Batty Federal Com No. 004H			Well [offset] Ray Batty Federal Com No. 004H			Threshold Value=1.50' ± Interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Horiz Bearing [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16529.00H	12419.78	-3963.51	-902.93	10718.35	10720.83	884.86	-4586.86	322.77	6321.74	169.90	67.06	PASS
16629.00H	12421.69	-4063.48	-902.15	10714.64	10717.37	883.52	-4587.04	323.32	6399.69	171.15	67.40	PASS
16729.00H	12423.59	-4163.46	-901.36	10711.04	10714.01	882.24	-4587.22	323.85	6478.22	172.36	67.74	PASS
16829.00H	12425.50	-4263.44	-900.57	10707.96	10711.13	881.16	-4587.38	324.37	6557.32	173.54	68.10	PASS
16929.00H	12427.41	-4363.42	-899.78	10704.98	10708.35	880.14	-4587.52	324.88	6636.88	174.70	68.47	PASS
17029.00H	12429.32	-4463.40	-899.00	10702.13	10705.66	879.16	-4587.66	325.38	6717.16	175.82	68.86	PASS
17064.78	12430.00	-4499.18	-898.72	10701.12	10704.71	878.83	-4587.71	325.55	6745.98	176.21	69.00	PASS

POSITIONAL UNCERTAINTY - Offset Wellbore: [offset] Ray Batty Federal Com No. 004H Offset Wellpath: [offset] Ray Batty Federal Com No. 004H awp 100' - 15493' Proj: 15556'

Slot Surface Uncertainty @1SD	Horizontal	0.000ft	Vertical	0.000ft
Facility Surface Uncertainty @1SD	Horizontal	3.300ft	Vertical	3.000ft

SOLE & CASING SECTIONS - Offset Wellbore: [offset] Ray Batty Federal Com No. 004H Offset Wellpath: [offset] Ray Batty Federal Com No. 004H awp 100' - 15493' Proj: 15556'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.375in Casing	18.00	1426.00	1408.00	15.60	1423.58	511.28	-2813.97	512.38	-2815.77
9.625in Casing	18.00	5282.00	5264.00	15.60	5279.02	511.28	-2813.97	511.84	-2812.28
5.5in Casing	18.00	15554.00	15536.00	15.60	10897.12	511.28	-2813.97	1955.87	-2822.32



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Strong Fee 14-24S-33E AR No. 214
Area	Lea County, NM	Well	Strong Fee 14-24S-33E AR No. 214
Field	Lea County, NM NAD27	Wellbore	Strong Fee 14-24S-33E AR No. 214
Facility	Strong Fee 14-24S-33E AR No. 214		

WELLPATH COMPOSITION - Offset Wellbore: [offset] Ray Batty Federal Com No. 004H Offset Wellpath: [offset] Ray Batty Federal Com No. 004H awp 100' - 15493' Proj: 15556'			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
18.00	10480.00	BHI Generic gyro - northseeking (Standard)	Imported VES Gyro surveys from 100' - 10480'
10480.00	15493.00	ISCWSA MWD, Rev. 4 (Standard)	Imported Nexus MWD surveys from 10554' - 15493'
15493.00	15556.00	Blind Drilling (std)	Projection to bit

OFFSET WELLPATH REFERENCE - Offset Wellbore: [offset] Ray Batty Federal Com No. 004H Offset Wellpath: [offset] Ray Batty Federal Com No. 004H awp 100' - 15493' Proj: 15556'	
MD Reference: Rig: Silver Oak #12 (KB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	18.00ft