



# Planned Wellpath Report

## MULE DEER J24-32-29XRLNB (REV-A.0) PWP

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### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#08 MULE DEER J24-32-29XRLNB (246'FNL & 2131'FEL,SEC.05)
Area	COLORADO	Well	MULE DEER J24-32-29XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER J24-32-29XRLNB PWB
Facility	SEC.05-T05N-R61W		

### REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.1
North Reference	True	User	Robiale01
Scale	0.999962	Report Generated	6/14/2019 at 2:33:42 PM
Convergence at slot	0.82° East	Database/Source file	WA DENVER/MULE_DEER_J24-32-29XRLNB_REV-A.0_PWP.xml

### WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-47.00	160.34	3353132.92	1404482.18	40°26'12.376"N	104°13'52.802"W
Facility Reference Pt			3352971.93	1404526.87	40°26'12.840"N	104°13'54.876"W
Field Reference Pt			3224525.77	1254425.87	40°01'44.400"N	104°41'53.556"W

### WELLPATH DATUM

Calculation method	Minimum curvature	RIG (17') (RKB) to Facility Vertical Datum	4676.00ft
Horizontal Reference Pt	Slot	RIG (17') (RKB) to Mean Sea Level	4676.00ft
Vertical Reference Pt	RIG (17') (RKB)	RIG (17') (RKB) to Ground Level at Slot (SLOT#08 MULE DEER J24-32-29XRLNB (246'FNL & 2131'FEL,SEC.05))	4676.00ft
MD Reference Pt	RIG (17') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	351.17°

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Facility	SEC.05-T05N-R61W		

### WELLPATH DATA (171 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	275.588	0.00	0.00	0.00	0.00	40°26'12.376"N	104°13'52.802"W	0.00	
17.00	0.000	275.588	17.00	0.00	0.00	0.00	40°26'12.376"N	104°13'52.802"W	0.00	Tie On
117.00†	0.000	275.588	117.00	0.00	0.00	0.00	40°26'12.376"N	104°13'52.802"W	0.00	
217.00†	0.000	275.588	217.00	0.00	0.00	0.00	40°26'12.376"N	104°13'52.802"W	0.00	
317.00†	0.000	275.588	317.00	0.00	0.00	0.00	40°26'12.376"N	104°13'52.802"W	0.00	
350.00	0.000	275.588	350.00	0.00	0.00	0.00	40°26'12.376"N	104°13'52.802"W	0.00	End of Tangent
417.00†	1.340	275.588	416.99	0.20	0.08	-0.78	40°26'12.376"N	104°13'52.812"W	2.00	
517.00†	3.340	275.588	516.91	1.21	0.47	-4.84	40°26'12.380"N	104°13'52.865"W	2.00	
617.00†	5.340	275.588	616.61	3.10	1.21	-12.37	40°26'12.388"N	104°13'52.962"W	2.00	
717.00†	7.340	275.588	716.00	5.85	2.29	-23.36	40°26'12.398"N	104°13'53.105"W	2.00	
817.00†	9.340	275.588	814.93	9.46	3.70	-37.80	40°26'12.412"N	104°13'53.291"W	2.00	
917.00†	11.340	275.588	913.31	13.93	5.45	-55.66	40°26'12.429"N	104°13'53.522"W	2.00	
1017.00†	13.340	275.588	1010.99	19.25	7.53	-76.93	40°26'12.450"N	104°13'53.797"W	2.00	
1117.00†	15.340	275.588	1107.87	25.42	9.94	-101.58	40°26'12.474"N	104°13'54.116"W	2.00	
1199.83	16.997	275.588	1187.42	31.16	12.18	-124.53	40°26'12.496"N	104°13'54.413"W	2.00	End of Build
1217.00†	16.997	275.588	1203.84	32.41	12.67	-129.53	40°26'12.501"N	104°13'54.478"W	0.00	
1317.00†	16.997	275.588	1299.47	39.69	15.52	-158.62	40°26'12.529"N	104°13'54.854"W	0.00	
1417.00†	16.997	275.588	1395.11	46.97	18.36	-187.71	40°26'12.557"N	104°13'55.230"W	0.00	
1517.00†	16.997	275.588	1490.74	54.25	21.21	-216.81	40°26'12.585"N	104°13'55.606"W	0.00	
1617.00†	16.997	275.588	1586.37	61.53	24.06	-245.90	40°26'12.613"N	104°13'55.982"W	0.00	
1717.00†	16.997	275.588	1682.00	68.81	26.90	-274.99	40°26'12.641"N	104°13'56.359"W	0.00	
1817.00†	16.997	275.588	1777.63	76.09	29.75	-304.08	40°26'12.670"N	104°13'56.735"W	0.00	
1917.00†	16.997	275.588	1873.27	83.36	32.60	-333.18	40°26'12.698"N	104°13'57.111"W	0.00	
2017.00†	16.997	275.588	1968.90	90.64	35.44	-362.27	40°26'12.726"N	104°13'57.487"W	0.00	
2117.00†	16.997	275.588	2064.53	97.92	38.29	-391.36	40°26'12.754"N	104°13'57.864"W	0.00	
2217.00†	16.997	275.588	2160.16	105.20	41.13	-420.45	40°26'12.782"N	104°13'58.240"W	0.00	
2317.00†	16.997	275.588	2255.80	112.48	43.98	-449.55	40°26'12.810"N	104°13'58.616"W	0.00	
2417.00†	16.997	275.588	2351.43	119.76	46.83	-478.64	40°26'12.838"N	104°13'58.992"W	0.00	
2517.00†	16.997	275.588	2447.06	127.04	49.67	-507.73	40°26'12.866"N	104°13'59.369"W	0.00	
2617.00†	16.997	275.588	2542.69	134.32	52.52	-536.82	40°26'12.895"N	104°13'59.745"W	0.00	
2717.00†	16.997	275.588	2638.32	141.60	55.36	-565.92	40°26'12.923"N	104°14'00.121"W	0.00	
2817.00†	16.997	275.588	2733.96	148.88	58.21	-595.01	40°26'12.951"N	104°14'00.497"W	0.00	
2917.00†	16.997	275.588	2829.59	156.16	61.06	-624.10	40°26'12.979"N	104°14'00.874"W	0.00	
3017.00†	16.997	275.588	2925.22	163.44	63.90	-653.19	40°26'13.007"N	104°14'01.250"W	0.00	
3117.00†	16.997	275.588	3020.85	170.72	66.75	-682.29	40°26'13.035"N	104°14'01.626"W	0.00	
3217.00†	16.997	275.588	3116.49	177.99	69.60	-711.38	40°26'13.063"N	104°14'02.002"W	0.00	

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3317.00†	16.997	275.588	3212.12	185.27	72.44	-740.47	40°26'13.091"N	104°14'02.379"W	0.00	
3417.00†	16.997	275.588	3307.75	192.55	75.29	-769.56	40°26'13.119"N	104°14'02.755"W	0.00	
3517.00†	16.997	275.588	3403.38	199.83	78.13	-798.66	40°26'13.148"N	104°14'03.131"W	0.00	
3617.00†	16.997	275.588	3499.01	207.11	80.98	-827.75	40°26'13.176"N	104°14'03.507"W	0.00	
3717.00†	16.997	275.588	3594.65	214.39	83.83	-856.84	40°26'13.204"N	104°14'03.883"W	0.00	
3817.00†	16.997	275.588	3690.28	221.67	86.67	-885.93	40°26'13.232"N	104°14'04.260"W	0.00	
3917.00†	16.997	275.588	3785.91	228.95	89.52	-915.03	40°26'13.260"N	104°14'04.636"W	0.00	
4017.00†	16.997	275.588	3881.54	236.23	92.37	-944.12	40°26'13.288"N	104°14'05.012"W	0.00	
4117.00†	16.997	275.588	3977.18	243.51	95.21	-973.21	40°26'13.316"N	104°14'05.388"W	0.00	

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Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER J24-32-29XRLNB PWB
Facility	SEC.05-T05N-R61W		

### WELLPATH DATA (171 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4217.00†	16.997	275.588	4072.81	250.79	98.06	-1002.30	40°26'13.344"N	104°14'05.765"W	0.00	
4317.00†	16.997	275.588	4168.44	258.07	100.90	-1031.40	40°26'13.372"N	104°14'06.141"W	0.00	
4417.00†	16.997	275.588	4264.07	265.35	103.75	-1060.49	40°26'13.401"N	104°14'06.517"W	0.00	
4517.00†	16.997	275.588	4359.70	272.63	106.60	-1089.58	40°26'13.429"N	104°14'06.893"W	0.00	
4617.00†	16.997	275.588	4455.34	279.90	109.44	-1118.67	40°26'13.457"N	104°14'07.270"W	0.00	
4717.00†	16.997	275.588	4550.97	287.18	112.29	-1147.77	40°26'13.485"N	104°14'07.646"W	0.00	
4817.00†	16.997	275.588	4646.60	294.46	115.13	-1176.86	40°26'13.513"N	104°14'08.022"W	0.00	
4917.00†	16.997	275.588	4742.23	301.74	117.98	-1205.95	40°26'13.541"N	104°14'08.398"W	0.00	
5017.00†	16.997	275.588	4837.87	309.02	120.83	-1235.04	40°26'13.569"N	104°14'08.775"W	0.00	
5117.00†	16.997	275.588	4933.50	316.30	123.67	-1264.14	40°26'13.597"N	104°14'09.151"W	0.00	
5217.00†	16.997	275.588	5029.13	323.58	126.52	-1293.23	40°26'13.625"N	104°14'09.527"W	0.00	
5317.00†	16.997	275.588	5124.76	330.86	129.37	-1322.32	40°26'13.654"N	104°14'09.903"W	0.00	
5417.00†	16.997	275.588	5220.39	338.14	132.21	-1351.41	40°26'13.682"N	104°14'10.280"W	0.00	
5517.00†	16.997	275.588	5316.03	345.42	135.06	-1380.51	40°26'13.710"N	104°14'10.656"W	0.00	
5617.00†	16.997	275.588	5411.66	352.70	137.90	-1409.60	40°26'13.738"N	104°14'11.032"W	0.00	
5717.00†	16.997	275.588	5507.29	359.98	140.75	-1438.69	40°26'13.766"N	104°14'11.408"W	0.00	
5817.00†	16.997	275.588	5602.92	367.26	143.60	-1467.78	40°26'13.794"N	104°14'11.785"W	0.00	
5827.65	16.997	275.588	5613.11	368.03	143.90	-1470.88	40°26'13.797"N	104°14'11.825"W	0.00	End of Tangent
5917.00†	19.850	302.683	5698.02	381.36	153.38	-1496.70	40°26'13.891"N	104°14'12.158"W	10.00	
6017.00†	26.371	322.264	5790.08	412.14	180.18	-1524.65	40°26'14.156"N	104°14'12.520"W	10.00	
6117.00†	34.506	333.853	5876.30	458.74	223.28	-1550.80	40°26'14.581"N	104°14'12.858"W	10.00	
6217.00†	43.352	341.321	5954.06	519.76	281.37	-1574.33	40°26'15.155"N	104°14'13.163"W	10.00	
6317.00†	52.544	346.644	6021.00	593.33	352.69	-1594.54	40°26'15.860"N	104°14'13.424"W	10.00	
6417.00†	61.922	350.782	6075.08	677.22	435.06	-1610.82	40°26'16.674"N	104°14'13.635"W	10.00	
6517.00†	71.404	354.248	6114.65	768.89	525.99	-1622.67	40°26'17.573"N	104°14'13.788"W	10.00	
6617.00†	80.943	357.344	6138.53	865.55	622.71	-1629.72	40°26'18.528"N	104°14'13.879"W	10.00	
6711.70	90.000	0.124	6146.00 <sup>†</sup>	959.03	716.98	-1631.79	40°26'19.460"N	104°14'13.906"W	10.00	End of 3D Arc
6717.00†	90.000	0.124	6146.00	964.26	722.28	-1631.78	40°26'19.512"N	104°14'13.906"W	0.00	
6817.00†	90.000	0.124	6146.00	1063.04	822.28	-1631.56	40°26'20.500"N	104°14'13.903"W	0.00	
6917.00†	90.000	0.124	6146.00	1161.82	922.28	-1631.35	40°26'21.489"N	104°14'13.900"W	0.00	
7017.00†	90.000	0.124	6146.00	1260.60	1022.28	-1631.13	40°26'22.477"N	104°14'13.898"W	0.00	
7117.00†	90.000	0.124	6146.00	1359.38	1122.28	-1630.91	40°26'23.465"N	104°14'13.895"W	0.00	
7217.00†	90.000	0.124	6146.00	1458.16	1222.28	-1630.70	40°26'24.453"N	104°14'13.892"W	0.00	
7317.00†	90.000	0.124	6146.00	1556.94	1322.28	-1630.48	40°26'25.441"N	104°14'13.890"W	0.00	
7417.00†	90.000	0.124	6146.00	1655.72	1422.28	-1630.27	40°26'26.429"N	104°14'13.887"W	0.00	

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7517.00†	90.000	0.124	6146.00	1754.50	1522.28	-1630.05	40°26'27.418"N	104°14'13.884"W	0.00	
7617.00†	90.000	0.124	6146.00	1853.28	1622.28	-1629.83	40°26'28.406"N	104°14'13.881"W	0.00	
7717.00†	90.000	0.124	6146.00	1952.07	1722.28	-1629.62	40°26'29.394"N	104°14'13.879"W	0.00	
7817.00†	90.000	0.124	6146.00	2050.85	1822.28	-1629.40	40°26'30.382"N	104°14'13.876"W	0.00	
7917.00†	90.000	0.124	6146.00	2149.63	1922.28	-1629.19	40°26'31.370"N	104°14'13.873"W	0.00	
8017.00†	90.000	0.124	6146.00	2248.41	2022.28	-1628.97	40°26'32.358"N	104°14'13.871"W	0.00	
8117.00†	90.000	0.124	6146.00	2347.19	2122.28	-1628.75	40°26'33.346"N	104°14'13.868"W	0.00	
8217.00†	90.000	0.124	6146.00	2445.97	2222.28	-1628.54	40°26'34.335"N	104°14'13.865"W	0.00	
8317.00†	90.000	0.124	6146.00	2544.75	2322.28	-1628.32	40°26'35.323"N	104°14'13.863"W	0.00	
8417.00†	90.000	0.124	6146.00	2643.53	2422.28	-1628.11	40°26'36.311"N	104°14'13.860"W	0.00	

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8517.00†	90.000	0.124	6146.00	2742.31	2522.28	-1627.89	40°26'37.299"N	104°14'13.857"W	0.00	
8617.00†	90.000	0.124	6146.00	2841.09	2622.28	-1627.67	40°26'38.287"N	104°14'13.854"W	0.00	
8717.00†	90.000	0.124	6146.00	2939.87	2722.28	-1627.46	40°26'39.275"N	104°14'13.852"W	0.00	
8817.00†	90.000	0.124	6146.00	3038.65	2822.28	-1627.24	40°26'40.264"N	104°14'13.849"W	0.00	
8917.00†	90.000	0.124	6146.00	3137.44	2922.27	-1627.02	40°26'41.252"N	104°14'13.846"W	0.00	
9017.00†	90.000	0.124	6146.00	3236.22	3022.27	-1626.81	40°26'42.240"N	104°14'13.844"W	0.00	
9117.00†	90.000	0.124	6146.00	3335.00	3122.27	-1626.59	40°26'43.228"N	104°14'13.841"W	0.00	
9217.00†	90.000	0.124	6146.00	3433.78	3222.27	-1626.38	40°26'44.216"N	104°14'13.838"W	0.00	
9317.00†	90.000	0.124	6146.00	3532.56	3322.27	-1626.16	40°26'45.204"N	104°14'13.835"W	0.00	
9417.00†	90.000	0.124	6146.00	3631.34	3422.27	-1625.94	40°26'46.192"N	104°14'13.833"W	0.00	
9517.00†	90.000	0.124	6146.00	3730.12	3522.27	-1625.73	40°26'47.181"N	104°14'13.830"W	0.00	
9617.00†	90.000	0.124	6146.00	3828.90	3622.27	-1625.51	40°26'48.169"N	104°14'13.827"W	0.00	
9717.00†	90.000	0.124	6146.00	3927.68	3722.27	-1625.30	40°26'49.157"N	104°14'13.825"W	0.00	
9817.00†	90.000	0.124	6146.00	4026.46	3822.27	-1625.08	40°26'50.145"N	104°14'13.822"W	0.00	
9917.00†	90.000	0.124	6146.00	4125.24	3922.27	-1624.86	40°26'51.133"N	104°14'13.819"W	0.00	
10017.00†	90.000	0.124	6146.00	4224.03	4022.27	-1624.65	40°26'52.121"N	104°14'13.816"W	0.00	
10117.00†	90.000	0.124	6146.00	4322.81	4122.27	-1624.43	40°26'53.110"N	104°14'13.814"W	0.00	
10217.00†	90.000	0.124	6146.00	4421.59	4222.27	-1624.22	40°26'54.098"N	104°14'13.811"W	0.00	
10317.00†	90.000	0.124	6146.00	4520.37	4322.27	-1624.00	40°26'55.086"N	104°14'13.808"W	0.00	
10417.00†	90.000	0.124	6146.00	4619.15	4422.27	-1623.78	40°26'56.074"N	104°14'13.806"W	0.00	
10517.00†	90.000	0.124	6146.00	4717.93	4522.27	-1623.57	40°26'57.062"N	104°14'13.803"W	0.00	
10617.00†	90.000	0.124	6146.00	4816.71	4622.27	-1623.35	40°26'58.050"N	104°14'13.800"W	0.00	
10717.00†	90.000	0.124	6146.00	4915.49	4722.27	-1623.13	40°26'59.038"N	104°14'13.797"W	0.00	
10817.00†	90.000	0.124	6146.00	5014.27	4822.27	-1622.92	40°27'00.027"N	104°14'13.795"W	0.00	
10917.00†	90.000	0.124	6146.00	5113.05	4922.27	-1622.70	40°27'01.015"N	104°14'13.792"W	0.00	
11017.00†	90.000	0.124	6146.00	5211.83	5022.27	-1622.49	40°27'02.003"N	104°14'13.789"W	0.00	
11117.00†	90.000	0.124	6146.00	5310.61	5122.27	-1622.27	40°27'02.991"N	104°14'13.787"W	0.00	
11217.00†	90.000	0.124	6146.00	5409.40	5222.27	-1622.05	40°27'03.979"N	104°14'13.784"W	0.00	
11317.00†	90.000	0.124	6146.00	5508.18	5322.27	-1621.84	40°27'04.967"N	104°14'13.781"W	0.00	
11417.00†	90.000	0.124	6146.00	5606.96	5422.27	-1621.62	40°27'05.956"N	104°14'13.778"W	0.00	
11508.69	90.000	0.124	6146.00 <sup>2</sup>	5697.53	5513.96	-1621.42	40°27'06.862"N	104°14'13.776"W	0.00	End of Tangent
11513.48	90.000	0.220	6146.00	5702.26	5518.75	-1621.41	40°27'06.909"N	104°14'13.776"W	2.00	End of 3D Arc
11517.00†	90.000	0.220	6146.00	5705.74	5522.27	-1621.40	40°27'06.944"N	104°14'13.776"W	0.00	
11617.00†	90.000	0.220	6146.00	5804.49	5622.27	-1621.01	40°27'07.932"N	104°14'13.771"W	0.00	
11717.00†	90.000	0.220	6146.00	5903.25	5722.27	-1620.63	40°27'08.920"N	104°14'13.766"W	0.00	

WELLPATH DATA (171 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11817.00†	90.000	0.220	6146.00	6002.00	5822.27	-1620.25	40°27'09.908"N	104°14'13.761"W	0.00	
11917.00†	90.000	0.220	6146.00	6100.76	5922.27	-1619.86	40°27'10.896"N	104°14'13.756"W	0.00	
12017.00†	90.000	0.220	6146.00	6199.51	6022.27	-1619.48	40°27'11.884"N	104°14'13.751"W	0.00	
12117.00†	90.000	0.220	6146.00	6298.26	6122.26	-1619.10	40°27'12.873"N	104°14'13.746"W	0.00	
12217.00†	90.000	0.220	6146.00	6397.02	6222.26	-1618.71	40°27'13.861"N	104°14'13.742"W	0.00	
12317.00†	90.000	0.220	6146.00	6495.77	6322.26	-1618.33	40°27'14.849"N	104°14'13.737"W	0.00	
12417.00†	90.000	0.220	6146.00	6594.53	6422.26	-1617.95	40°27'15.837"N	104°14'13.732"W	0.00	
12517.00†	90.000	0.220	6146.00	6693.28	6522.26	-1617.56	40°27'16.825"N	104°14'13.727"W	0.00	
12617.00†	90.000	0.220	6146.00	6792.04	6622.26	-1617.18	40°27'17.813"N	104°14'13.722"W	0.00	
12717.00†	90.000	0.220	6146.00	6890.79	6722.26	-1616.80	40°27'18.801"N	104°14'13.717"W	0.00	



# Planned Wellpath Report

MULE DEER J24-32-29XRLNB (REV-A.0) PWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#08 MULE DEER J24-32-29XRLNB (246'FNL & 2131'FEL,SEC.05)
Area	COLORADO	Well	MULE DEER J24-32-29XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER J24-32-29XRLNB PWB
Facility	SEC.05-T05N-R61W		

## WELLPATH DATA (171 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12817.00†	90.000	0.220	6146.00	6989.55	6822.26	-1616.41	40°27'19.790"N	104°14'13.712"W	0.00	
12917.00†	90.000	0.220	6146.00	7088.30	6922.26	-1616.03	40°27'20.778"N	104°14'13.707"W	0.00	
13017.00†	90.000	0.220	6146.00	7187.06	7022.26	-1615.65	40°27'21.766"N	104°14'13.703"W	0.00	
13117.00†	90.000	0.220	6146.00	7285.81	7122.26	-1615.26	40°27'22.754"N	104°14'13.698"W	0.00	
13217.00†	90.000	0.220	6146.00	7384.57	7222.26	-1614.88	40°27'23.742"N	104°14'13.693"W	0.00	
13317.00†	90.000	0.220	6146.00	7483.32	7322.26	-1614.50	40°27'24.730"N	104°14'13.688"W	0.00	
13417.00†	90.000	0.220	6146.00	7582.08	7422.25	-1614.11	40°27'25.718"N	104°14'13.683"W	0.00	
13517.00†	90.000	0.220	6146.00	7680.83	7522.25	-1613.73	40°27'26.707"N	104°14'13.678"W	0.00	
13617.00†	90.000	0.220	6146.00	7779.58	7622.25	-1613.35	40°27'27.695"N	104°14'13.673"W	0.00	
13717.00†	90.000	0.220	6146.00	7878.34	7722.25	-1612.96	40°27'28.683"N	104°14'13.668"W	0.00	
13817.00†	90.000	0.220	6146.00	7977.09	7822.25	-1612.58	40°27'29.671"N	104°14'13.664"W	0.00	
13917.00†	90.000	0.220	6146.00	8075.85	7922.25	-1612.20	40°27'30.659"N	104°14'13.659"W	0.00	
14017.00†	90.000	0.220	6146.00	8174.60	8022.25	-1611.81	40°27'31.647"N	104°14'13.654"W	0.00	
14117.00†	90.000	0.220	6146.00	8273.36	8122.25	-1611.43	40°27'32.635"N	104°14'13.649"W	0.00	
14217.00†	90.000	0.220	6146.00	8372.11	8222.25	-1611.05	40°27'33.624"N	104°14'13.644"W	0.00	
14317.00†	90.000	0.220	6146.00	8470.87	8322.25	-1610.67	40°27'34.612"N	104°14'13.639"W	0.00	
14417.00†	90.000	0.220	6146.00	8569.62	8422.25	-1610.28	40°27'35.600"N	104°14'13.634"W	0.00	
14517.00†	90.000	0.220	6146.00	8668.38	8522.25	-1609.90	40°27'36.588"N	104°14'13.629"W	0.00	
14617.00†	90.000	0.220	6146.00	8767.13	8622.25	-1609.52	40°27'37.576"N	104°14'13.625"W	0.00	
14717.00†	90.000	0.220	6146.00	8865.89	8722.25	-1609.13	40°27'38.564"N	104°14'13.620"W	0.00	
14817.00†	90.000	0.220	6146.00	8964.64	8822.24	-1608.75	40°27'39.553"N	104°14'13.615"W	0.00	
14917.00†	90.000	0.220	6146.00	9063.40	8922.24	-1608.37	40°27'40.541"N	104°14'13.610"W	0.00	
15017.00†	90.000	0.220	6146.00	9162.15	9022.24	-1607.98	40°27'41.529"N	104°14'13.605"W	0.00	
15117.00†	90.000	0.220	6146.00	9260.91	9122.24	-1607.60	40°27'42.517"N	104°14'13.600"W	0.00	
15217.00†	90.000	0.220	6146.00	9359.66	9222.24	-1607.22	40°27'43.505"N	104°14'13.595"W	0.00	
15317.00†	90.000	0.220	6146.00	9458.41	9322.24	-1606.83	40°27'44.493"N	104°14'13.590"W	0.00	
15417.00†	90.000	0.220	6146.00	9557.17	9422.24	-1606.45	40°27'45.481"N	104°14'13.586"W	0.00	
15517.00†	90.000	0.220	6146.00	9655.92	9522.24	-1606.07	40°27'46.470"N	104°14'13.581"W	0.00	
15617.00†	90.000	0.220	6146.00	9754.68	9622.24	-1605.68	40°27'47.458"N	104°14'13.576"W	0.00	
15717.00†	90.000	0.220	6146.00	9853.43	9722.24	-1605.30	40°27'48.446"N	104°14'13.571"W	0.00	
15817.00†	90.000	0.220	6146.00	9952.19	9822.24	-1604.92	40°27'49.434"N	104°14'13.566"W	0.00	
15917.00†	90.000	0.220	6146.00	10050.94	9922.24	-1604.53	40°27'50.422"N	104°14'13.561"W	0.00	
16017.00†	90.000	0.220	6146.00	10149.70	10022.24	-1604.15	40°27'51.410"N	104°14'13.556"W	0.00	
16117.00†	90.000	0.220	6146.00	10248.45	10122.24	-1603.77	40°27'52.398"N	104°14'13.551"W	0.00	
16217.00†	90.000	0.220	6146.00	10347.21	10222.23	-1603.38	40°27'53.387"N	104°14'13.547"W	0.00	
16311.47	90.000	0.220		10440.50	10316.70	-1603.02	40°27'54.320"N	104°14'13.542"W	0.00	End of Tangent

WELLPATH DATA (171 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
			6146.00 <sup>3</sup>							

HOLE & CASING SECTIONS - Ref Wellbore: MULE DEER J24-32-29XRLNB PWB      Ref Wellpath: MULE DEER J24-32-29XRLNB (REV-A.0) PWP										
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]	
13.5in Open Hole	17.00	1500.00	1483.00	17.00	1474.48	0.00	0.00	20.73	-211.86	
9.625in Casing Surface	17.00	1500.00	1483.00	17.00	1474.48	0.00	0.00	20.73	-211.86	
8.5in Open Hole	1500.00	16311.47	14811.47	1474.48	6146.00	20.73	-211.86	10316.70	-1603.02	

# Planned Wellpath Report

## MULE DEER J24-32-29XRLNB (REV-A.0) PWP

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### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#08 MULE DEER J24-32-29XRLNB (246'FNL & 2131'FEL,SEC.05)
Area	COLORADO	Well	MULE DEER J24-32-29XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER J24-32-29XRLNB PWB
Facility	SEC.05-T05N-R61W		

### TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.29-T06N-R61W		-2.00	810.97	-607.94	3352513.47	1405284.33	40°26'20.389"N	104°14'00.665"W	polygon
SEC.32-T06N-R61W		-2.00	810.97	-607.94	3352513.47	1405284.33	40°26'20.389"N	104°14'00.665"W	polygon
SEC.05-T05N-R61W		0.00	-9886.03	-1941.14	3351333.48	1394569.78	40°24'34.685"N	104°14'17.896"W	polygon
2) MULE DEER J24-32-29XRLNB ( MLT 1612'FWL)	11508.69	6146.00	5513.96	-1621.42	3351432.85	1409972.16	40°27'06.862"N	104°14'13.776"W	point
3) MULE DEER J24-32-29XRLNB BHL REV-1 (470'FNL & 1614'FWL,SEC.29)	16311.47	6146.00	10316.70	-1603.02	3351382.54	1414774.48	40°27'54.320"N	104°14'13.542"W	point
1) MULE DEER J24-32-29XRLNB LP REV-1 (470'FSL & 1618'FWL,SEC.32)	6711.70	6146.00	716.98	-1631.79	3351491.11	1405175.71	40°26'19.460"N	104°14'13.906"W	point

### SURVEY PROGRAM - Ref Wellbore: MULE DEER J24-32-29XRLNB PWB Ref Wellpath: MULE DEER J24-32-29XRLNB (REV-A.0) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	1500.00	BHI NaviTrak (Rotating+Axial Corr)		MULE DEER J24-32-29XRLNB PWB
1500.00	16311.47	BHI AutoTrak Curve (Short)		MULE DEER J24-32-29XRLNB PWB

# Planned Wellpath Report

MULE DEER J24-32-29XRLNB (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#08 MULE DEER J24-32-29XRLNB (246'FNL & 2131'FEL,SEC.05)
Area	COLORADO	Well	MULE DEER J24-32-29XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER J24-32-29XRLNB PWB
Facility	SEC.05-T05N-R61W		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
17.00	0.000	275.588	17.00	Tie On
350.00	0.000	275.588	350.00	End of Tangent
1199.83	16.997	275.588	1187.42	End of Build
5827.65	16.997	275.588	5613.11	End of Tangent
6711.70	90.000	0.124	6146.00	End of 3D Arc
11508.69	90.000	0.124	6146.00	End of Tangent
11513.48	90.000	0.220	6146.00	End of 3D Arc
16311.47	90.000	0.220	6146.00	End of Tangent