

Location:	COLORADO	Slot:	SLOT#14 MULE DEER 44-32-29XRLNB (336°FNL & 2131°FEL, SEC.05)
Field:	WELD COUNTY (NAD83/TRUE)	Well:	MULE DEER 44-32-29XRLNB
Facility:	SEC.05-T05N-R61W	Wellbore:	MULE DEER 44-32-29XRLNB PWB
Plot reference wellpath is MULE DEER 44-32-29XRLNB (REV-A.0) PWP		Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	
True vertical depths are referenced to RIG (17) (RKB)		North Reference: True north	
Measured depths are referenced to RIG (17) (RKB)		Scale: True distance	
RIG (17) (RKB) to Mean Sea Level: 4676 feet		Depths are in feet	
Mean Sea Level to Ground level (At Slot: SLOT#14 MULE DEER 44-32-29XRLNB (336°FNL & 2131°FEL, SEC.05): 0 feet		Created by: robale01 on 2019-06-14	
Coordinates are in feet referenced to Slot		Database: WA DENVER	

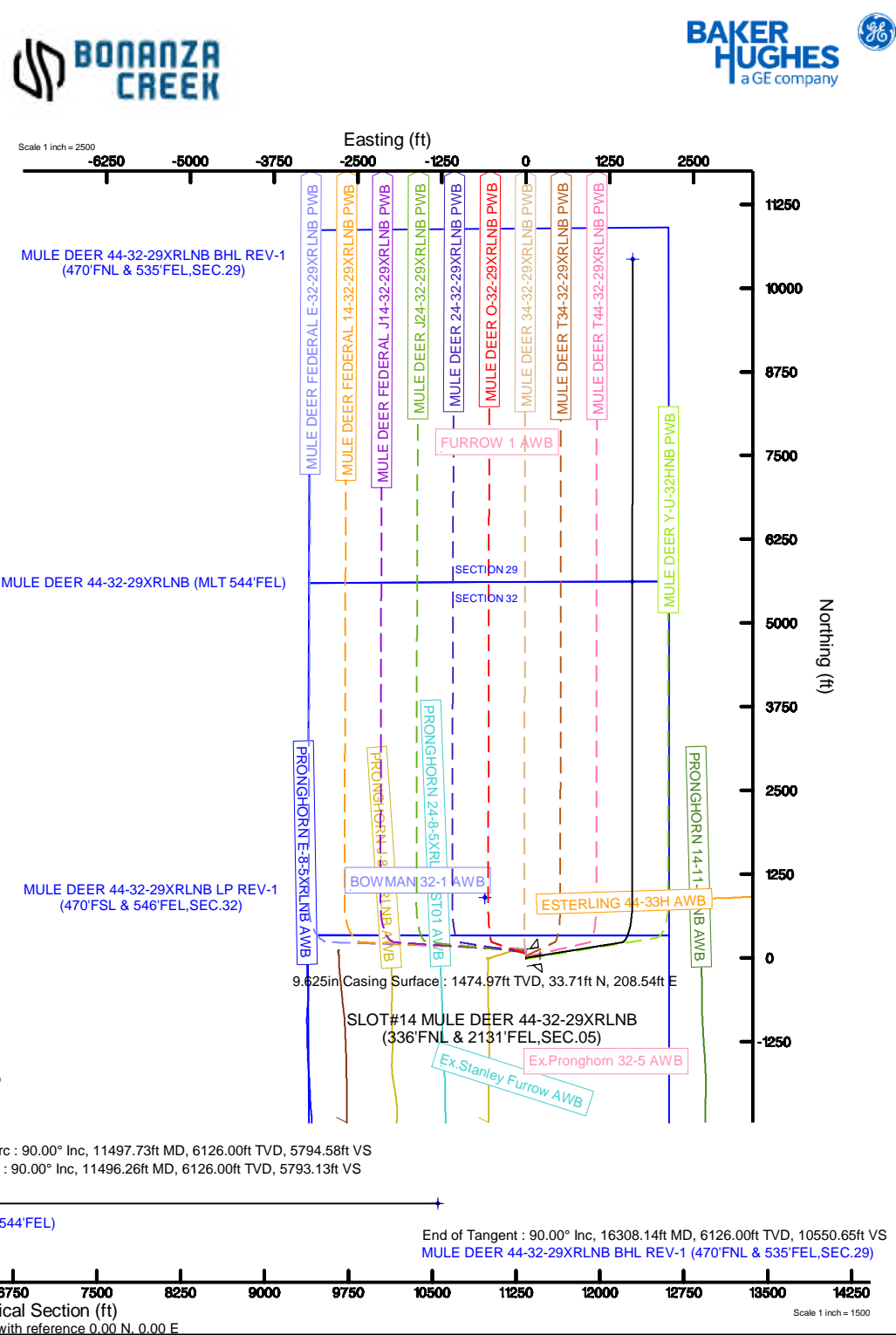
Location Information						
Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC 05-T05N-R61W			3352971.931	1404526.872	40°26'12.840"N	104°13'254.876"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SLOT#14 MULE DEER 44-32-29XRLNB (336°FNL & 2131°FEL,SEC 05)	-136.98	160.34	3353134.209	1404392.203	40°26'11.486"N	104°13'252.802"W
RG (17) (RK8) to Ground level (At Slot: SLOT#14 MULE DEER 44-32-29XRLNB (336°FNL & 2131°FEL,SEC 05))					4676ft	
Mean Sea Level to Ground level (At Slot: SLOT#14 MULE DEER 44-32-29XRLNB (336°FNL & 2131°FEL,SEC 05))					0ft	
RG (17) (RK8) to Mean Sea Level					4676ft	

Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
17.00	1500.00	BHI NavTrak	BHI NavTrak (Rotating+Axial Corr)		MULE DEER 44-32-29XRLNB PWB
1500.00	16308.14	BHI AutoTrak Curve	BHI AutoTrak Curve (Short)		MULE DEER 44-32-29XRLNB PWB

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	17.00	0.000	80.817	17.00	0.00	0.00	0.00	0.00
End of Tangent	350.00	0.000	80.817	350.00	0.00	0.00	0.00	0.00
End of Build	1184.03	16.681	80.817	1172.30	19.24	119.01	2.00	36.99
End of Tangent	5808.16	16.681	80.817	5601.84	231.07	1429.29	0.00	444.26
End of 3D Arc	6681.80	90.000	0.036	6126.00	803.32	1584.69	10.00	1033.42
End of Tangent	11496.26	90.000	0.036	6126.00	5617.79	1587.75	0.00	5793.13
End of 3D Arc	11497.73	90.000	0.066	6126.00	5619.25	1587.75	2.00	5794.58
End of Tangent	16308.14	90.000	0.066	6126.00	10429.66	1593.27	0.00	10550.65

Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)	Wellbore
13.5in Open Hole	17.00	1500.00	1483.00	17.00	1474.97	0.00	0.00	33.71	208.54	MULE DEER 44-32-29XRLNB PWB
9.625in Casing Surface	17.00	1500.00	1483.00	17.00	1474.97	0.00	0.00	33.71	208.54	MULE DEER 44-32-29XRLNB PWB
8.5in Open Hole	1500.00	16308.14	14808.14	1474.97	6126.00	33.71	208.54	10429.66	1593.27	MULE DEER 44-32-29XRLNB PWB

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
16308.14	90.000	0.066	6126.00	10429.66	1593.27	3354578.04	1414843.17	40°27'54.547"N	104°13'32.189"W



# Planned Wellpath Report

## MULE DEER 44-32-29XRLNB (REV-A.0) PWP

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### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#14 MULE DEER 44-32-29XRLNB (336'FNL & 2131'FEL,SEC.05)
Area	COLORADO	Well	MULE DEER 44-32-29XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER 44-32-29XRLNB 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 4:09:06 PM
Convergence at slot	0.82° East	Database/Source file	WA DENVER/MULE_DEER_44-32-29XRLNB_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	-136.98	160.34	3353134.21	1404392.20	40°26'11.486"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#14 MULE DEER 44-32-29XRLNB (336'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	8.69°

# Planned Wellpath Report

## MULE DEER 44-32-29XRLNB (REV-A.0) PWP

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### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#14 MULE DEER 44-32-29XRLNB (336'FNL & 2131'FEL, SEC.05)
Area	COLORADO	Well	MULE DEER 44-32-29XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER 44-32-29XRLNB 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
0.00†	0.000	80.817	0.00	0.00	0.00	0.00	40°26'11.486"N	104°13'52.802"W	0.00	
17.00	0.000	80.817	17.00	0.00	0.00	0.00	40°26'11.486"N	104°13'52.802"W	0.00	Tie On
117.00†	0.000	80.817	117.00	0.00	0.00	0.00	40°26'11.486"N	104°13'52.802"W	0.00	
217.00†	0.000	80.817	217.00	0.00	0.00	0.00	40°26'11.486"N	104°13'52.802"W	0.00	
317.00†	0.000	80.817	317.00	0.00	0.00	0.00	40°26'11.486"N	104°13'52.802"W	0.00	
350.00	0.000	80.817	350.00	0.00	0.00	0.00	40°26'11.486"N	104°13'52.802"W	0.00	End of Tangent
417.00†	1.340	80.817	416.99	0.24	0.13	0.77	40°26'11.488"N	104°13'52.792"W	2.00	
517.00†	3.340	80.817	516.91	1.49	0.78	4.80	40°26'11.494"N	104°13'52.740"W	2.00	
617.00†	5.340	80.817	616.61	3.82	1.98	12.27	40°26'11.506"N	104°13'52.644"W	2.00	
717.00†	7.340	80.817	716.00	7.20	3.75	23.17	40°26'11.523"N	104°13'52.503"W	2.00	
817.00†	9.340	80.817	814.93	11.65	6.06	37.49	40°26'11.546"N	104°13'52.318"W	2.00	
917.00†	11.340	80.817	913.31	17.16	8.93	55.21	40°26'11.575"N	104°13'52.088"W	2.00	
1017.00†	13.340	80.817	1010.99	23.72	12.34	76.31	40°26'11.608"N	104°13'51.816"W	2.00	
1117.00†	15.340	80.817	1107.87	31.32	16.29	100.76	40°26'11.647"N	104°13'51.499"W	2.00	
1184.03	16.681	80.817	1172.30	36.99	19.24	119.01	40°26'11.677"N	104°13'51.263"W	2.00	End of Build
1217.00†	16.681	80.817	1203.88	39.89	20.75	128.35	40°26'11.691"N	104°13'51.143"W	0.00	
1317.00†	16.681	80.817	1299.67	48.70	25.33	156.68	40°26'11.737"N	104°13'50.776"W	0.00	
1417.00†	16.681	80.817	1395.46	57.51	29.91	185.02	40°26'11.782"N	104°13'50.410"W	0.00	
1517.00†	16.681	80.817	1491.26	66.32	34.49	213.36	40°26'11.827"N	104°13'50.043"W	0.00	
1617.00†	16.681	80.817	1587.05	75.12	39.07	241.69	40°26'11.872"N	104°13'49.677"W	0.00	
1717.00†	16.681	80.817	1682.84	83.93	43.65	270.03	40°26'11.918"N	104°13'49.310"W	0.00	
1817.00†	16.681	80.817	1778.63	92.74	48.24	298.36	40°26'11.963"N	104°13'48.944"W	0.00	
1917.00†	16.681	80.817	1874.42	101.55	52.82	326.70	40°26'12.008"N	104°13'48.577"W	0.00	
2017.00†	16.681	80.817	1970.22	110.35	57.40	355.03	40°26'12.054"N	104°13'48.211"W	0.00	
2117.00†	16.681	80.817	2066.01	119.16	61.98	383.37	40°26'12.099"N	104°13'47.845"W	0.00	
2217.00†	16.681	80.817	2161.80	127.97	66.56	411.71	40°26'12.144"N	104°13'47.478"W	0.00	
2317.00†	16.681	80.817	2257.59	136.78	71.14	440.04	40°26'12.189"N	104°13'47.112"W	0.00	
2417.00†	16.681	80.817	2353.38	145.58	75.72	468.38	40°26'12.235"N	104°13'46.745"W	0.00	
2517.00†	16.681	80.817	2449.18	154.39	80.30	496.71	40°26'12.280"N	104°13'46.379"W	0.00	
2617.00†	16.681	80.817	2544.97	163.20	84.88	525.05	40°26'12.325"N	104°13'46.012"W	0.00	
2717.00†	16.681	80.817	2640.76	172.01	89.46	553.38	40°26'12.370"N	104°13'45.646"W	0.00	
2817.00†	16.681	80.817	2736.55	180.81	94.05	581.72	40°26'12.416"N	104°13'45.279"W	0.00	
2917.00†	16.681	80.817	2832.34	189.62	98.63	610.06	40°26'12.461"N	104°13'44.913"W	0.00	
3017.00†	16.681	80.817	2928.14	198.43	103.21	638.39	40°26'12.506"N	104°13'44.546"W	0.00	
3117.00†	16.681	80.817	3023.93	207.24	107.79	666.73	40°26'12.551"N	104°13'44.180"W	0.00	
3217.00†	16.681	80.817	3119.72	216.04	112.37	695.06	40°26'12.597"N	104°13'43.814"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
3317.00†	16.681	80.817	3215.51	224.85	116.95	723.40	40°26'12.642"N	104°13'43.447"W	0.00	
3417.00†	16.681	80.817	3311.30	233.66	121.53	751.74	40°26'12.687"N	104°13'43.081"W	0.00	
3517.00†	16.681	80.817	3407.10	242.47	126.11	780.07	40°26'12.732"N	104°13'42.714"W	0.00	
3617.00†	16.681	80.817	3502.89	251.27	130.69	808.41	40°26'12.778"N	104°13'42.348"W	0.00	
3717.00†	16.681	80.817	3598.68	260.08	135.28	836.74	40°26'12.823"N	104°13'41.981"W	0.00	
3817.00†	16.681	80.817	3694.47	268.89	139.86	865.08	40°26'12.868"N	104°13'41.615"W	0.00	
3917.00†	16.681	80.817	3790.26	277.70	144.44	893.41	40°26'12.914"N	104°13'41.248"W	0.00	
4017.00†	16.681	80.817	3886.06	286.50	149.02	921.75	40°26'12.959"N	104°13'40.882"W	0.00	
4117.00†	16.681	80.817	3981.85	295.31	153.60	950.09	40°26'13.004"N	104°13'40.515"W	0.00	

# Planned Wellpath Report

## MULE DEER 44-32-29XRLNB (REV-A.0) PWP

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### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#14 MULE DEER 44-32-29XRLNB (336'FNL & 2131'FEL, SEC.05)
Area	COLORADO	Well	MULE DEER 44-32-29XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER 44-32-29XRLNB 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†	16.681	80.817	4077.64	304.12	158.18	978.42	40°26'13.049"N	104°13'40.149"W	0.00	
4317.00†	16.681	80.817	4173.43	312.93	162.76	1006.76	40°26'13.095"N	104°13'39.783"W	0.00	
4417.00†	16.681	80.817	4269.22	321.73	167.34	1035.09	40°26'13.140"N	104°13'39.416"W	0.00	
4517.00†	16.681	80.817	4365.02	330.54	171.92	1063.43	40°26'13.185"N	104°13'39.050"W	0.00	
4617.00†	16.681	80.817	4460.81	339.35	176.50	1091.76	40°26'13.230"N	104°13'38.683"W	0.00	
4717.00†	16.681	80.817	4556.60	348.16	181.09	1120.10	40°26'13.276"N	104°13'38.317"W	0.00	
4817.00†	16.681	80.817	4652.39	356.96	185.67	1148.44	40°26'13.321"N	104°13'37.950"W	0.00	
4917.00†	16.681	80.817	4748.18	365.77	190.25	1176.77	40°26'13.366"N	104°13'37.584"W	0.00	
5017.00†	16.681	80.817	4843.97	374.58	194.83	1205.11	40°26'13.411"N	104°13'37.217"W	0.00	
5117.00†	16.681	80.817	4939.77	383.39	199.41	1233.44	40°26'13.457"N	104°13'36.851"W	0.00	
5217.00†	16.681	80.817	5035.56	392.19	203.99	1261.78	40°26'13.502"N	104°13'36.484"W	0.00	
5317.00†	16.681	80.817	5131.35	401.00	208.57	1290.12	40°26'13.547"N	104°13'36.118"W	0.00	
5417.00†	16.681	80.817	5227.14	409.81	213.15	1318.45	40°26'13.592"N	104°13'35.752"W	0.00	
5517.00†	16.681	80.817	5322.93	418.62	217.73	1346.79	40°26'13.638"N	104°13'35.385"W	0.00	
5617.00†	16.681	80.817	5418.73	427.42	222.31	1375.12	40°26'13.683"N	104°13'35.019"W	0.00	
5717.00†	16.681	80.817	5514.52	436.23	226.90	1403.46	40°26'13.728"N	104°13'34.652"W	0.00	
5808.16	16.681	80.817	5601.84	444.26	231.07	1429.29	40°26'13.769"N	104°13'34.318"W	0.00	End of Tangent
5817.00†	16.839	77.799	5610.31	445.11	231.54	1431.79	40°26'13.774"N	104°13'34.286"W	10.00	
5917.00†	21.194	49.746	5705.02	463.95	246.32	1459.82	40°26'13.920"N	104°13'33.923"W	10.00	
6017.00†	28.446	33.128	5795.83	499.35	278.03	1486.70	40°26'14.233"N	104°13'33.576"W	10.00	
6117.00†	36.922	23.216	5879.98	550.24	325.70	1511.62	40°26'14.704"N	104°13'33.253"W	10.00	
6217.00†	45.945	16.666	5954.91	615.06	387.89	1533.82	40°26'15.319"N	104°13'32.966"W	10.00	
6317.00†	55.241	11.881	6018.35	691.86	462.70	1552.63	40°26'16.058"N	104°13'32.723"W	10.00	
6417.00†	64.687	8.078	6068.36	778.29	547.86	1567.48	40°26'16.900"N	104°13'32.531"W	10.00	
6517.00†	74.215	4.833	6103.43	871.73	640.79	1577.91	40°26'17.818"N	104°13'32.396"W	10.00	
6617.00†	83.787	1.882	6122.49	969.34	738.67	1583.61	40°26'18.785"N	104°13'32.322"W	10.00	
6681.80	90.000	0.036	6126.00†	1033.42	803.32	1584.69	40°26'19.424"N	104°13'32.308"W	10.00	End of 3D Arc
6717.00†	90.000	0.036	6126.00	1068.22	838.53	1584.71	40°26'19.772"N	104°13'32.308"W	0.00	
6817.00†	90.000	0.036	6126.00	1167.08	938.53	1584.77	40°26'20.760"N	104°13'32.307"W	0.00	
6917.00†	90.000	0.036	6126.00	1265.94	1038.53	1584.84	40°26'21.748"N	104°13'32.306"W	0.00	
7017.00†	90.000	0.036	6126.00	1364.81	1138.53	1584.90	40°26'22.736"N	104°13'32.305"W	0.00	
7117.00†	90.000	0.036	6126.00	1463.67	1238.53	1584.96	40°26'23.724"N	104°13'32.304"W	0.00	
7217.00†	90.000	0.036	6126.00	1562.53	1338.53	1585.03	40°26'24.713"N	104°13'32.303"W	0.00	
7317.00†	90.000	0.036	6126.00	1661.40	1438.53	1585.09	40°26'25.701"N	104°13'32.302"W	0.00	
7417.00†	90.000	0.036	6126.00	1760.26	1538.53	1585.15	40°26'26.689"N	104°13'32.301"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
7517.00†	90.000	0.036	6126.00	1859.12	1638.53	1585.22	40°26'27.677"N	104°13'32.300"W	0.00	
7617.00†	90.000	0.036	6126.00	1957.98	1738.53	1585.28	40°26'28.665"N	104°13'32.300"W	0.00	
7717.00†	90.000	0.036	6126.00	2056.85	1838.53	1585.34	40°26'29.653"N	104°13'32.299"W	0.00	
7817.00†	90.000	0.036	6126.00	2155.71	1938.53	1585.41	40°26'30.642"N	104°13'32.298"W	0.00	
7917.00†	90.000	0.036	6126.00	2254.57	2038.53	1585.47	40°26'31.630"N	104°13'32.297"W	0.00	
8017.00†	90.000	0.036	6126.00	2353.44	2138.53	1585.54	40°26'32.618"N	104°13'32.296"W	0.00	
8117.00†	90.000	0.036	6126.00	2452.30	2238.53	1585.60	40°26'33.606"N	104°13'32.295"W	0.00	
8217.00†	90.000	0.036	6126.00	2551.16	2338.53	1585.66	40°26'34.594"N	104°13'32.294"W	0.00	
8317.00†	90.000	0.036	6126.00	2650.02	2438.53	1585.73	40°26'35.582"N	104°13'32.293"W	0.00	
8417.00†	90.000	0.036	6126.00	2748.89	2538.53	1585.79	40°26'36.571"N	104°13'32.292"W	0.00	

# Planned Wellpath Report

## MULE DEER 44-32-29XRLNB (REV-A.0) PWP

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### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#14 MULE DEER 44-32-29XRLNB (336'FNL & 2131'FEL,SEC.05)
Area	COLORADO	Well	MULE DEER 44-32-29XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER 44-32-29XRLNB 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
8517.00†	90.000	0.036	6126.00	2847.75	2638.53	1585.85	40°26'37.559"N	104°13'32.291"W	0.00	
8617.00†	90.000	0.036	6126.00	2946.61	2738.53	1585.92	40°26'38.547"N	104°13'32.290"W	0.00	
8717.00†	90.000	0.036	6126.00	3045.47	2838.53	1585.98	40°26'39.535"N	104°13'32.290"W	0.00	
8817.00†	90.000	0.036	6126.00	3144.34	2938.53	1586.04	40°26'40.523"N	104°13'32.289"W	0.00	
8917.00†	90.000	0.036	6126.00	3243.20	3038.53	1586.11	40°26'41.511"N	104°13'32.288"W	0.00	
9017.00†	90.000	0.036	6126.00	3342.06	3138.53	1586.17	40°26'42.499"N	104°13'32.287"W	0.00	
9117.00†	90.000	0.036	6126.00	3440.93	3238.53	1586.23	40°26'43.488"N	104°13'32.286"W	0.00	
9217.00†	90.000	0.036	6126.00	3539.79	3338.53	1586.30	40°26'44.476"N	104°13'32.285"W	0.00	
9317.00†	90.000	0.036	6126.00	3638.65	3438.53	1586.36	40°26'45.464"N	104°13'32.284"W	0.00	
9417.00†	90.000	0.036	6126.00	3737.51	3538.53	1586.43	40°26'46.452"N	104°13'32.283"W	0.00	
9517.00†	90.000	0.036	6126.00	3836.38	3638.53	1586.49	40°26'47.440"N	104°13'32.282"W	0.00	
9617.00†	90.000	0.036	6126.00	3935.24	3738.53	1586.55	40°26'48.428"N	104°13'32.281"W	0.00	
9717.00†	90.000	0.036	6126.00	4034.10	3838.53	1586.62	40°26'49.417"N	104°13'32.281"W	0.00	
9817.00†	90.000	0.036	6126.00	4132.97	3938.53	1586.68	40°26'50.405"N	104°13'32.280"W	0.00	
9917.00†	90.000	0.036	6126.00	4231.83	4038.53	1586.74	40°26'51.393"N	104°13'32.279"W	0.00	
10017.00†	90.000	0.036	6126.00	4330.69	4138.53	1586.81	40°26'52.381"N	104°13'32.278"W	0.00	
10117.00†	90.000	0.036	6126.00	4429.55	4238.53	1586.87	40°26'53.369"N	104°13'32.277"W	0.00	
10217.00†	90.000	0.036	6126.00	4528.42	4338.53	1586.93	40°26'54.357"N	104°13'32.276"W	0.00	
10317.00†	90.000	0.036	6126.00	4627.28	4438.53	1587.00	40°26'55.345"N	104°13'32.275"W	0.00	
10417.00†	90.000	0.036	6126.00	4726.14	4538.53	1587.06	40°26'56.334"N	104°13'32.274"W	0.00	
10517.00†	90.000	0.036	6126.00	4825.01	4638.53	1587.12	40°26'57.322"N	104°13'32.273"W	0.00	
10617.00†	90.000	0.036	6126.00	4923.87	4738.53	1587.19	40°26'58.310"N	104°13'32.272"W	0.00	
10717.00†	90.000	0.036	6126.00	5022.73	4838.53	1587.25	40°26'59.298"N	104°13'32.271"W	0.00	
10817.00†	90.000	0.036	6126.00	5121.59	4938.53	1587.32	40°27'00.286"N	104°13'32.271"W	0.00	
10917.00†	90.000	0.036	6126.00	5220.46	5038.53	1587.38	40°27'01.274"N	104°13'32.270"W	0.00	
11017.00†	90.000	0.036	6126.00	5319.32	5138.53	1587.44	40°27'02.263"N	104°13'32.269"W	0.00	
11117.00†	90.000	0.036	6126.00	5418.18	5238.53	1587.51	40°27'03.251"N	104°13'32.268"W	0.00	
11217.00†	90.000	0.036	6126.00	5517.04	5338.53	1587.57	40°27'04.239"N	104°13'32.267"W	0.00	
11317.00†	90.000	0.036	6126.00	5615.91	5438.53	1587.63	40°27'05.227"N	104°13'32.266"W	0.00	
11417.00†	90.000	0.036	6126.00	5714.77	5538.53	1587.70	40°27'06.215"N	104°13'32.265"W	0.00	
11496.26	90.000	0.036	6126.00 <sup>2</sup>	5793.13	5617.79	1587.75	40°27'06.998"N	104°13'32.264"W	0.00	End of Tangent
11497.73	90.000	0.066	6126.00	5794.58	5619.25	1587.75	40°27'07.013"N	104°13'32.264"W	2.00	End of 3D Arc
11517.00†	90.000	0.066	6126.00	5813.63	5638.53	1587.77	40°27'07.203"N	104°13'32.264"W	0.00	
11617.00†	90.000	0.066	6126.00	5912.50	5738.53	1587.89	40°27'08.191"N	104°13'32.263"W	0.00	
11717.00†	90.000	0.066	6126.00	6011.38	5838.53	1588.00	40°27'09.180"N	104°13'32.261"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	0.066	6126.00	6110.25	5938.53	1588.11	40°27'10.168"N	104°13'32.259"W	0.00	
11917.00†	90.000	0.066	6126.00	6209.12	6038.53	1588.23	40°27'11.156"N	104°13'32.258"W	0.00	
12017.00†	90.000	0.066	6126.00	6307.99	6138.53	1588.34	40°27'12.144"N	104°13'32.256"W	0.00	
12117.00†	90.000	0.066	6126.00	6406.86	6238.53	1588.46	40°27'13.132"N	104°13'32.255"W	0.00	
12217.00†	90.000	0.066	6126.00	6505.73	6338.53	1588.57	40°27'14.120"N	104°13'32.253"W	0.00	
12317.00†	90.000	0.066	6126.00	6604.60	6438.53	1588.69	40°27'15.109"N	104°13'32.252"W	0.00	
12417.00†	90.000	0.066	6126.00	6703.47	6538.53	1588.80	40°27'16.097"N	104°13'32.250"W	0.00	
12517.00†	90.000	0.066	6126.00	6802.34	6638.52	1588.92	40°27'17.085"N	104°13'32.248"W	0.00	
12617.00†	90.000	0.066	6126.00	6901.21	6738.52	1589.03	40°27'18.073"N	104°13'32.247"W	0.00	
12717.00†	90.000	0.066	6126.00	7000.08	6838.52	1589.15	40°27'19.061"N	104°13'32.245"W	0.00	



# Planned Wellpath Report

## MULE DEER 44-32-29XRLNB (REV-A.0) PWP

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### REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#14 MULE DEER 44-32-29XRLNB (336'FNL & 2131'FEL, SEC.05)
Area	COLORADO	Well	MULE DEER 44-32-29XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER 44-32-29XRLNB 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	0.066	6126.00	7098.95	6938.52	1589.26	40°27'20.049"N	104°13'32.244"W	0.00	
12917.00†	90.000	0.066	6126.00	7197.82	7038.52	1589.38	40°27'21.037"N	104°13'32.242"W	0.00	
13017.00†	90.000	0.066	6126.00	7296.69	7138.52	1589.49	40°27'22.026"N	104°13'32.241"W	0.00	
13117.00†	90.000	0.066	6126.00	7395.56	7238.52	1589.61	40°27'23.014"N	104°13'32.239"W	0.00	
13217.00†	90.000	0.066	6126.00	7494.43	7338.52	1589.72	40°27'24.002"N	104°13'32.237"W	0.00	
13317.00†	90.000	0.066	6126.00	7593.30	7438.52	1589.84	40°27'24.990"N	104°13'32.236"W	0.00	
13417.00†	90.000	0.066	6126.00	7692.17	7538.52	1589.95	40°27'25.978"N	104°13'32.234"W	0.00	
13517.00†	90.000	0.066	6126.00	7791.04	7638.52	1590.06	40°27'26.966"N	104°13'32.233"W	0.00	
13617.00†	90.000	0.066	6126.00	7889.91	7738.52	1590.18	40°27'27.955"N	104°13'32.231"W	0.00	
13717.00†	90.000	0.066	6126.00	7988.78	7838.52	1590.29	40°27'28.943"N	104°13'32.230"W	0.00	
13817.00†	90.000	0.066	6126.00	8087.66	7938.52	1590.41	40°27'29.931"N	104°13'32.228"W	0.00	
13917.00†	90.000	0.066	6126.00	8186.53	8038.52	1590.52	40°27'30.919"N	104°13'32.226"W	0.00	
14017.00†	90.000	0.066	6126.00	8285.40	8138.52	1590.64	40°27'31.907"N	104°13'32.225"W	0.00	
14117.00†	90.000	0.066	6126.00	8384.27	8238.52	1590.75	40°27'32.895"N	104°13'32.223"W	0.00	
14217.00†	90.000	0.066	6126.00	8483.14	8338.52	1590.87	40°27'33.883"N	104°13'32.222"W	0.00	
14317.00†	90.000	0.066	6126.00	8582.01	8438.52	1590.98	40°27'34.872"N	104°13'32.220"W	0.00	
14417.00†	90.000	0.066	6126.00	8680.88	8538.52	1591.10	40°27'35.860"N	104°13'32.219"W	0.00	
14517.00†	90.000	0.066	6126.00	8779.75	8638.52	1591.21	40°27'36.848"N	104°13'32.217"W	0.00	
14617.00†	90.000	0.066	6126.00	8878.62	8738.52	1591.33	40°27'37.836"N	104°13'32.216"W	0.00	
14717.00†	90.000	0.066	6126.00	8977.49	8838.52	1591.44	40°27'38.824"N	104°13'32.214"W	0.00	
14817.00†	90.000	0.066	6126.00	9076.36	8938.52	1591.56	40°27'39.812"N	104°13'32.212"W	0.00	
14917.00†	90.000	0.066	6126.00	9175.23	9038.52	1591.67	40°27'40.800"N	104°13'32.211"W	0.00	
15017.00†	90.000	0.066	6126.00	9274.10	9138.52	1591.79	40°27'41.789"N	104°13'32.209"W	0.00	
15117.00†	90.000	0.066	6126.00	9372.97	9238.52	1591.90	40°27'42.777"N	104°13'32.208"W	0.00	
15217.00†	90.000	0.066	6126.00	9471.84	9338.52	1592.01	40°27'43.765"N	104°13'32.206"W	0.00	
15317.00†	90.000	0.066	6126.00	9570.71	9438.52	1592.13	40°27'44.753"N	104°13'32.205"W	0.00	
15417.00†	90.000	0.066	6126.00	9669.58	9538.52	1592.24	40°27'45.741"N	104°13'32.203"W	0.00	
15517.00†	90.000	0.066	6126.00	9768.45	9638.52	1592.36	40°27'46.729"N	104°13'32.201"W	0.00	
15617.00†	90.000	0.066	6126.00	9867.32	9738.52	1592.47	40°27'47.718"N	104°13'32.200"W	0.00	
15717.00†	90.000	0.066	6126.00	9966.19	9838.52	1592.59	40°27'48.706"N	104°13'32.198"W	0.00	
15817.00†	90.000	0.066	6126.00	10065.06	9938.52	1592.70	40°27'49.694"N	104°13'32.197"W	0.00	
15917.00†	90.000	0.066	6126.00	10163.93	10038.52	1592.82	40°27'50.682"N	104°13'32.195"W	0.00	
16017.00†	90.000	0.066	6126.00	10262.81	10138.52	1592.93	40°27'51.670"N	104°13'32.194"W	0.00	
16117.00†	90.000	0.066	6126.00	10361.68	10238.52	1593.05	40°27'52.658"N	104°13'32.192"W	0.00	
16217.00†	90.000	0.066	6126.00	10460.55	10338.52	1593.16	40°27'53.646"N	104°13'32.190"W	0.00	
16308.14	90.000	0.066		10550.65	10429.66	1593.27	40°27'54.547"N	104°13'32.189"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
			6126.00 <sup>3</sup>							

HOLE & CASING SECTIONS - Ref Wellbore: MULE DEER 44-32-29XRLNB PWB      Ref Wellpath: MULE DEER 44-32-29XRLNB (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	1474.97	0.00	0.00	33.71	208.54	
9.625in Casing Surface	17.00	1500.00	1483.00	17.00	1474.97	0.00	0.00	33.71	208.54	
8.5in Open Hole	1500.00	16308.14	14808.14	1474.97	6126.00	33.71	208.54	10429.66	1593.27	

# Planned Wellpath Report

## MULE DEER 44-32-29XRLNB (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#14 MULE DEER 44-32-29XRLNB (336'FNL & 2131'FEL,SEC.05)
Area	COLORADO	Well	MULE DEER 44-32-29XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER 44-32-29XRLNB 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	900.96	-607.94	3352513.47	1405284.33	40°26'20.389"N	104°14'00.665"W	polygon
SEC.32-T06N-R61W		-2.00	900.96	-607.94	3352513.47	1405284.33	40°26'20.389"N	104°14'00.665"W	polygon
SEC.05-T05N-R61W		0.00	-9796.05	-1941.14	3351333.48	1394569.78	40°24'34.685"N	104°14'17.896"W	polygon
2) MULE DEER 44-32-29XRLNB (MLT 544'FEL)	11496.26	6126.00	5617.79	1587.75	3354641.36	1410031.91	40°27'06.998"N	104°13'32.264"W	point
3) MULE DEER 44-32-29XRLNB BHL REV-1 (470'FNL & 535'FEL,SEC.29)	16308.14	6126.00	10429.66	1593.27	3354578.04	1414843.17	40°27'54.547"N	104°13'32.189"W	point
1) MULE DEER 44-32-29XRLNB LP REV-1 (470'FSL & 546'FEL,SEC.32)	6681.80	6126.00	803.32	1584.69	3354707.18	1405218.08	40°26'19.424"N	104°13'32.308"W	point

SURVEY PROGRAM - Ref Wellbore: MULE DEER 44-32-29XRLNB PWB Ref Wellpath: MULE DEER 44-32-29XRLNB (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 44-32-29XRLNB PWB
1500.00	16308.14	BHI AutoTrak Curve (Short)		MULE DEER 44-32-29XRLNB PWB

# Planned Wellpath Report

MULE DEER 44-32-29XRLNB (REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#14 MULE DEER 44-32-29XRLNB (336'FNL & 2131'FEL, SEC.05)
Area	COLORADO	Well	MULE DEER 44-32-29XRLNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	MULE DEER 44-32-29XRLNB PWB
Facility	SEC.05-T05N-R61W		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
17.00	0.000	80.817	17.00	Tie On
350.00	0.000	80.817	350.00	End of Tangent
1184.03	16.681	80.817	1172.30	End of Build
5808.16	16.681	80.817	5601.84	End of Tangent
6681.80	90.000	0.036	6126.00	End of 3D Arc
11496.26	90.000	0.036	6126.00	End of Tangent
11497.73	90.000	0.066	6126.00	End of 3D Arc
16308.14	90.000	0.066	6126.00	End of Tangent