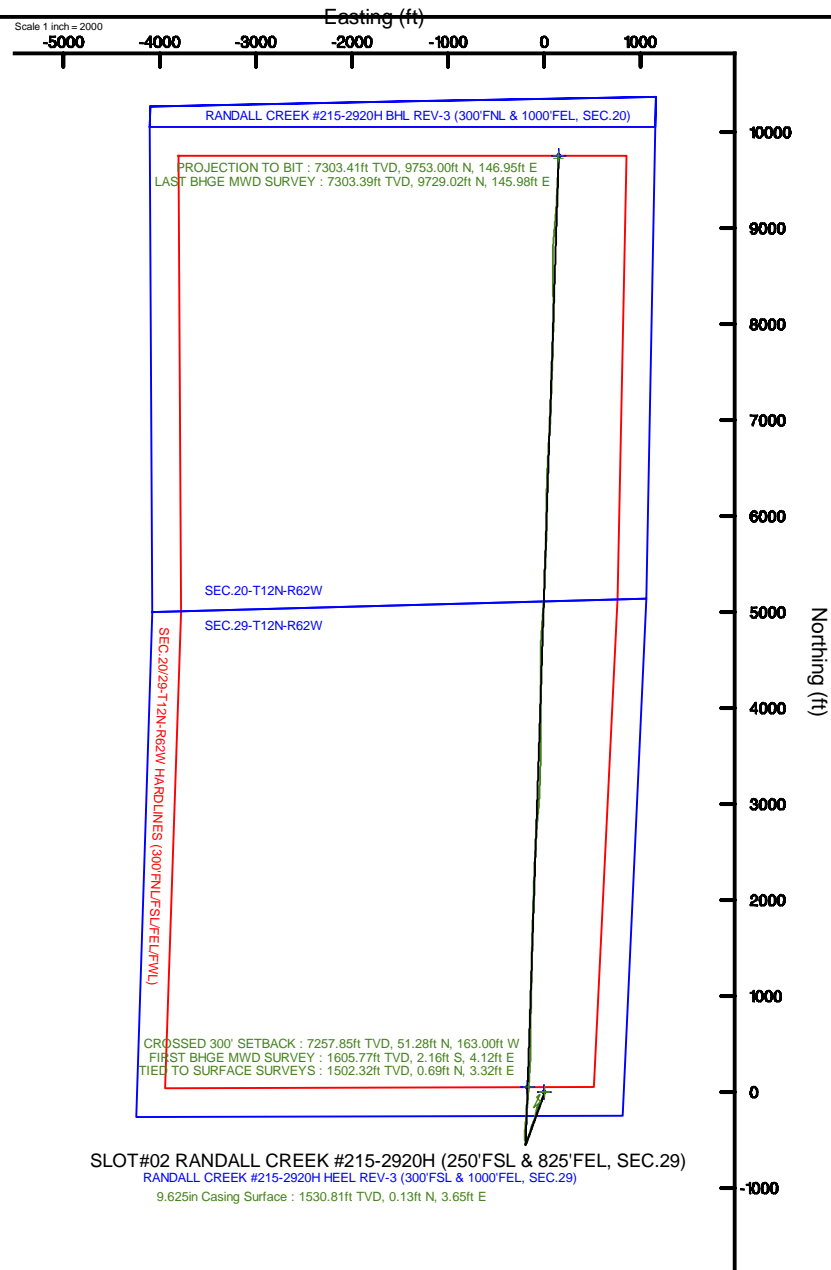
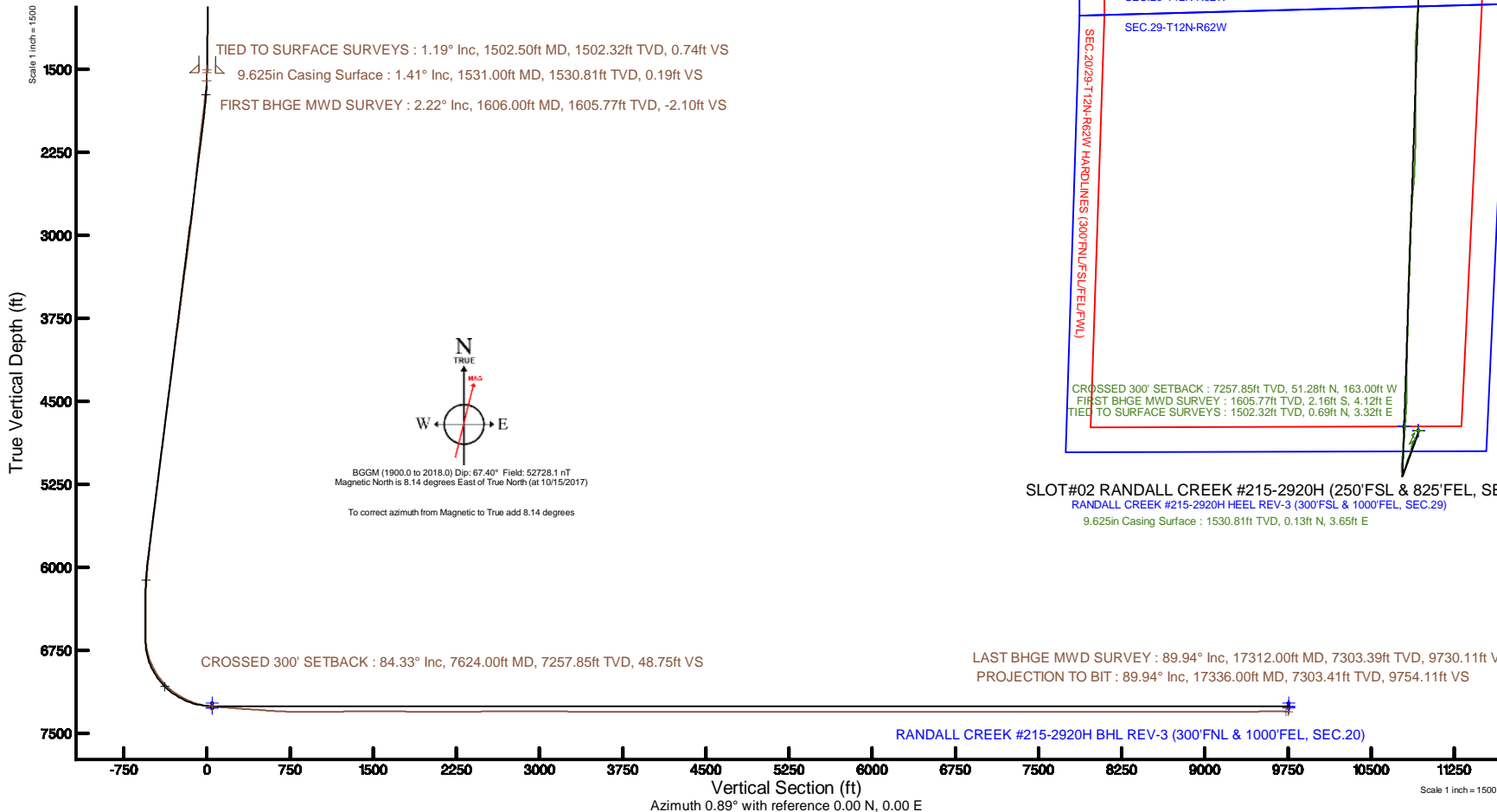


# FIFTH CREEK ENERGY

Location: COLORADO Slot: SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)  
 Field: WELD COUNTY (NAD 83 / TN) Well: RANDALL CREEK #215-2920H  
 Facility: SEC.29-T12N-R62W Wellbore: RANDALL CREEK #215-2920H PWB

Plot reference wellpath is RANDALL CREEK #215-2920H PWP (REV-E.0)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to UNIT 406 (21KB) (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to UNIT 406 (21KB) (RKB)	North Reference: True north
UNIT 406 (21KB) (RKB) to Mean Sea Level: 5369 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ingmjmr on 2017-11-15
	Database: Demer



LAST BHGE MWD SURVEY : 89.94° Inc, 17312.00ft MD, 7303.39ft TVD, 9730.11ft VS  
 PROJECTION TO BIT : 89.94° Inc, 17336.00ft MD, 7303.41ft TVD, 9754.11ft VS

RANDALL CREEK #215-2920H BHL REV-3 (300'FNL & 1000'FEL, SEC.20)



# Actual Wellpath Report

RANDALL CREEK #215-2920H AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	FIFTH CREEK ENERGY	Slot	SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)
Area	COLORADO	Well	RANDALL CREEK #215-2920H
Field	WELD COUNTY (NAD 83 / TN)	Wellbore	RANDALL CREEK #215-2920H AWB
Facility	SEC.29-T12N-R62W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Ingmjmr
Scale	1.000037	Report Generated	11/15/2017 at 2:30:53 PM
Convergence at slot	0.76° East	Database/Source file	Denver/RANDALL_CREEK_#215-2920H_AWP.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	24.55	3320935.94	1599809.91	40°58'26.630"N	104°20'16.060"W
Facility Reference Pt			3320911.40	1599809.59	40°58'26.630"N	104°20'16.380"W
Field Reference Pt			3310982.01	1578058.18	40°54'53.000"N	104°22'29.410"W

## WELLPATH DATUM

Calculation method	Minimum curvature	UNIT 406 (21'KB) (RKB) to Facility Vertical Datum	5369.00ft
Horizontal Reference Pt	Slot	UNIT 406 (21'KB) (RKB) to Mean Sea Level	5369.00ft
Vertical Reference Pt	UNIT 406 (21'KB) (RKB)	UNIT 406 (21'KB) (RKB) to Mud Line at Slot (SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29))	5369.00ft
MD Reference Pt	UNIT 406 (21'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	0.89°



# Actual Wellpath Report

RANDALL CREEK #215-2920H AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	FIFTH CREEK ENERGY	Slot	SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)
Area	COLORADO	Well	RANDALL CREEK #215-2920H
Field	WELD COUNTY (NAD 83 / TN)	Wellbore	RANDALL CREEK #215-2920H AWB
Facility	SEC.29-T12N-R62W		

## WELLPATH DATA (170 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
1502.50	1.190	142.470	1502.32	0.74	0.69	3.32	40°58'26.637"N	104°20'16.017"W	0.44	TIED TO SURFACE SURVEYS
1606.00	2.220	176.110	1605.77	-2.10	-2.16	4.12	40°58'26.609"N	104°20'16.006"W	1.35	FIRST BHGE MWD SURVEY
1701.00	8.020	202.300	1700.36	-10.11	-10.14	1.72	40°58'26.530"N	104°20'16.038"W	6.43	
1796.00	7.140	201.730	1794.53	-21.80	-21.75	-2.98	40°58'26.415"N	104°20'16.099"W	0.93	
1891.00	7.030	198.310	1888.80	-32.86	-32.76	-6.99	40°58'26.306"N	104°20'16.151"W	0.46	
1987.00	7.180	196.080	1984.07	-44.26	-44.10	-10.50	40°58'26.194"N	104°20'16.197"W	0.33	
2082.00	7.210	202.410	2078.32	-55.53	-55.32	-14.41	40°58'26.083"N	104°20'16.248"W	0.83	
2178.00	7.030	203.930	2173.58	-66.54	-66.25	-19.09	40°58'25.975"N	104°20'16.309"W	0.27	
2274.00	6.980	207.440	2268.86	-77.17	-76.80	-24.16	40°58'25.871"N	104°20'16.375"W	0.45	
2370.00	6.900	209.580	2364.16	-87.44	-86.99	-29.70	40°58'25.770"N	104°20'16.447"W	0.28	
2466.00	6.940	208.560	2459.46	-97.64	-97.10	-35.32	40°58'25.671"N	104°20'16.520"W	0.13	
2562.00	7.270	208.930	2554.72	-108.14	-107.51	-41.03	40°58'25.568"N	104°20'16.595"W	0.35	
2657.00	7.210	218.910	2648.97	-118.14	-117.41	-47.68	40°58'25.470"N	104°20'16.682"W	1.32	
2753.00	7.540	223.610	2744.18	-127.51	-126.66	-55.81	40°58'25.379"N	104°20'16.788"W	0.72	
2848.00	7.260	206.410	2838.40	-137.51	-136.55	-62.78	40°58'25.281"N	104°20'16.878"W	2.34	
2944.00	7.470	201.770	2933.61	-148.81	-147.78	-67.79	40°58'25.170"N	104°20'16.944"W	0.66	
3038.00	7.600	200.510	3026.79	-160.38	-159.28	-72.24	40°58'25.056"N	104°20'17.002"W	0.22	
3132.00	7.650	194.850	3119.96	-172.30	-171.15	-76.02	40°58'24.939"N	104°20'17.051"W	0.80	
3227.00	7.620	190.050	3214.12	-184.66	-183.46	-78.74	40°58'24.817"N	104°20'17.086"W	0.67	
3322.00	7.580	190.960	3308.29	-197.04	-195.81	-81.03	40°58'24.695"N	104°20'17.116"W	0.13	
3416.00	7.820	195.090	3401.44	-209.35	-208.07	-83.87	40°58'24.574"N	104°20'17.153"W	0.64	
3511.00	7.590	195.040	3495.58	-221.70	-220.37	-87.18	40°58'24.453"N	104°20'17.197"W	0.24	
3606.00	7.530	191.480	3589.76	-233.90	-232.53	-90.05	40°58'24.332"N	104°20'17.234"W	0.50	
3701.00	7.490	190.180	3683.94	-246.13	-244.73	-92.38	40°58'24.212"N	104°20'17.264"W	0.18	
3797.00	7.560	190.530	3779.12	-258.53	-257.09	-94.64	40°58'24.090"N	104°20'17.294"W	0.09	
3892.00	7.610	191.720	3873.29	-270.87	-269.40	-97.06	40°58'23.968"N	104°20'17.325"W	0.17	
3986.00	7.660	195.710	3966.45	-283.04	-281.52	-100.02	40°58'23.848"N	104°20'17.364"W	0.57	
4081.00	7.470	199.230	4060.63	-295.02	-293.45	-103.77	40°58'23.731"N	104°20'17.413"W	0.53	
4175.00	7.530	201.700	4153.82	-306.58	-304.94	-108.06	40°58'23.617"N	104°20'17.469"W	0.35	
4270.00	7.670	205.670	4247.99	-318.15	-316.44	-113.11	40°58'23.503"N	104°20'17.535"W	0.57	



# Actual Wellpath Report

RANDALL CREEK #215-2920H AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	FIFTH CREEK ENERGY	Slot	SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)
Area	COLORADO	Well	RANDALL CREEK #215-2920H
Field	WELD COUNTY (NAD 83 / TN)	Wellbore	RANDALL CREEK #215-2920H AWB
Facility	SEC.29-T12N-R62W		

## WELLPATH DATA (170 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4364.00	7.910	205.360	4341.12	-329.73	-327.94	-118.60	40°58'23.390"N	104°20'17.606"W	0.26	
4460.00	7.760	203.320	4436.23	-341.74	-339.86	-123.99	40°58'23.272"N	104°20'17.676"W	0.33	
4556.00	7.720	199.420	4531.35	-353.84	-351.89	-128.70	40°58'23.153"N	104°20'17.738"W	0.55	
4651.00	7.560	192.620	4625.51	-366.01	-364.01	-132.19	40°58'23.033"N	104°20'17.783"W	0.97	
4746.00	7.660	191.410	4719.67	-378.35	-376.31	-134.81	40°58'22.912"N	104°20'17.817"W	0.20	
4841.00	7.650	194.420	4813.83	-390.73	-388.64	-137.63	40°58'22.790"N	104°20'17.854"W	0.42	
4936.00	7.520	196.780	4908.00	-402.85	-400.72	-141.00	40°58'22.671"N	104°20'17.898"W	0.36	
5031.00	7.340	198.510	5002.20	-414.62	-412.42	-144.72	40°58'22.555"N	104°20'17.947"W	0.30	
5127.00	7.490	198.670	5097.40	-426.42	-424.17	-148.67	40°58'22.439"N	104°20'17.998"W	0.16	
5222.00	7.460	198.290	5191.59	-438.20	-435.89	-152.59	40°58'22.323"N	104°20'18.049"W	0.06	
5318.00	7.650	198.640	5286.76	-450.23	-447.86	-156.59	40°58'22.205"N	104°20'18.101"W	0.20	
5412.00	7.910	200.330	5379.89	-462.29	-459.85	-160.84	40°58'22.086"N	104°20'18.157"W	0.37	
5507.00	7.090	197.560	5474.08	-474.07	-471.57	-164.88	40°58'21.971"N	104°20'18.209"W	0.94	
5601.00	7.270	197.300	5567.34	-485.33	-482.78	-168.40	40°58'21.860"N	104°20'18.255"W	0.19	
5696.00	7.450	201.400	5661.56	-496.87	-494.26	-172.43	40°58'21.746"N	104°20'18.308"W	0.58	
5790.00	7.230	202.910	5754.79	-508.06	-505.38	-176.96	40°58'21.637"N	104°20'18.367"W	0.31	
5885.00	7.100	200.910	5849.05	-519.12	-516.37	-181.38	40°58'21.528"N	104°20'18.425"W	0.30	
5979.00	7.010	202.740	5942.33	-529.90	-527.09	-185.67	40°58'21.422"N	104°20'18.480"W	0.26	
6073.00	5.490	204.610	6035.77	-539.34	-536.47	-189.76	40°58'21.329"N	104°20'18.534"W	1.63	
6168.00	3.530	200.410	6130.47	-546.26	-543.34	-192.67	40°58'21.261"N	104°20'18.572"W	2.09	
6262.00	2.530	198.700	6224.34	-550.96	-548.02	-194.35	40°58'21.215"N	104°20'18.594"W	1.07	
6357.00	0.570	183.730	6319.30	-553.43	-550.47	-195.05	40°58'21.191"N	104°20'18.603"W	2.09	
6451.00	0.130	54.370	6413.30	-553.83	-550.88	-194.99	40°58'21.187"N	104°20'18.602"W	0.70	
6545.00	0.100	116.480	6507.30	-553.80	-550.85	-194.83	40°58'21.187"N	104°20'18.600"W	0.13	
6640.00	0.030	168.240	6602.30	-553.86	-550.91	-194.75	40°58'21.187"N	104°20'18.599"W	0.09	
6734.00	7.160	350.740	6696.06	-548.11	-545.15	-195.69	40°58'21.244"N	104°20'18.611"W	7.65	
6829.00	15.170	354.080	6789.18	-529.91	-526.91	-197.93	40°58'21.424"N	104°20'18.640"W	8.46	
6923.00	23.730	355.060	6877.74	-498.83	-495.78	-200.83	40°58'21.731"N	104°20'18.678"W	9.11	
7017.00	32.190	0.220	6960.70	-454.89	-451.81	-202.37	40°58'22.166"N	104°20'18.698"W	9.35	
7112.00	41.190	4.230	7036.81	-398.23	-395.18	-199.96	40°58'22.725"N	104°20'18.667"W	9.80	



# Actual Wellpath Report

RANDALL CREEK #215-2920H AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	FIFTH CREEK ENERGY	Slot	SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)
Area	COLORADO	Well	RANDALL CREEK #215-2920H
Field	WELD COUNTY (NAD 83 / TN)	Wellbore	RANDALL CREEK #215-2920H AWB
Facility	SEC.29-T12N-R62W		

## WELLPATH DATA (170 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7206.00	50.120	4.970	7102.45	-331.22	-328.25	-194.54	40°58'23.387"N	104°20'18.596"W	9.52	
7301.00	58.170	5.980	7158.05	-254.54	-251.67	-187.17	40°58'24.143"N	104°20'18.500"W	8.52	
7395.00	66.110	4.500	7201.95	-171.74	-168.98	-179.62	40°58'24.960"N	104°20'18.402"W	8.56	
7490.00	73.690	4.340	7234.57	-82.76	-80.09	-172.75	40°58'25.839"N	104°20'18.312"W	7.98	
7584.00	83.090	4.230	7253.47	9.05	11.62	-165.88	40°58'26.745"N	104°20'18.223"W	10.00	
7624.00†	84.328	4.086	7257.85	48.75	51.28	-163.00	40°58'27.137"N	104°20'18.185"W	3.12	CROSSED 300' SETBACK
7679.00	86.030	3.890	7262.47	103.47	105.95	-159.19	40°58'27.677"N	104°20'18.135"W	3.12	
7773.00	85.810	3.680	7269.16	197.11	199.50	-153.00	40°58'28.601"N	104°20'18.055"W	0.32	
7868.00	85.750	3.330	7276.15	291.75	294.07	-147.21	40°58'29.536"N	104°20'17.979"W	0.37	
7962.00	86.120	1.360	7282.81	385.48	387.75	-143.37	40°58'30.461"N	104°20'17.929"W	2.13	
8057.00	86.150	0.320	7289.22	480.27	482.52	-141.98	40°58'31.398"N	104°20'17.911"W	1.09	
8152.00	86.060	0.250	7295.67	575.04	577.30	-141.51	40°58'32.334"N	104°20'17.905"W	0.12	
8246.00	86.950	0.100	7301.40	668.86	671.12	-141.22	40°58'33.261"N	104°20'17.901"W	0.96	
8341.00	90.000	0.840	7303.93	763.81	766.08	-140.45	40°58'34.199"N	104°20'17.891"W	3.30	
8436.00	89.660	1.020	7304.21	858.81	861.06	-138.90	40°58'35.138"N	104°20'17.871"W	0.40	
8531.00	89.720	1.130	7304.72	953.81	956.04	-137.12	40°58'36.076"N	104°20'17.848"W	0.13	
8626.00	90.680	1.480	7304.39	1048.80	1051.02	-134.96	40°58'37.015"N	104°20'17.819"W	1.08	
8722.00	90.090	0.940	7303.75	1144.80	1146.99	-132.93	40°58'37.963"N	104°20'17.793"W	0.83	
8817.00	90.430	0.870	7303.32	1239.80	1241.98	-131.43	40°58'38.902"N	104°20'17.774"W	0.37	
8913.00	89.940	1.010	7303.01	1335.80	1337.97	-129.86	40°58'39.850"N	104°20'17.753"W	0.53	
9009.00	89.970	1.100	7303.08	1431.80	1433.95	-128.09	40°58'40.798"N	104°20'17.730"W	0.10	
9104.00	89.970	1.220	7303.13	1526.79	1528.93	-126.16	40°58'41.737"N	104°20'17.705"W	0.13	
9199.00	89.940	1.460	7303.21	1621.79	1623.91	-123.94	40°58'42.675"N	104°20'17.676"W	0.25	
9295.00	89.970	1.530	7303.28	1717.79	1719.87	-121.44	40°58'43.623"N	104°20'17.643"W	0.08	
9391.00	89.820	1.380	7303.46	1813.78	1815.84	-119.00	40°58'44.572"N	104°20'17.611"W	0.22	
9487.00	89.940	2.020	7303.66	1909.77	1911.80	-116.15	40°58'45.520"N	104°20'17.574"W	0.68	
9583.00	90.030	2.280	7303.68	2005.75	2007.73	-112.55	40°58'46.468"N	104°20'17.527"W	0.29	
9679.00	89.600	1.660	7303.99	2101.73	2103.67	-109.25	40°58'47.416"N	104°20'17.484"W	0.79	
9775.00	89.970	1.580	7304.35	2197.72	2199.63	-106.54	40°58'48.364"N	104°20'17.449"W	0.39	
9870.00	90.060	1.970	7304.33	2292.71	2294.59	-103.59	40°58'49.302"N	104°20'17.411"W	0.42	



# Actual Wellpath Report

RANDALL CREEK #215-2920H AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	FIFTH CREEK ENERGY	Slot	SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)
Area	COLORADO	Well	RANDALL CREEK #215-2920H
Field	WELD COUNTY (NAD 83 / TN)	Wellbore	RANDALL CREEK #215-2920H AWB
Facility	SEC.29-T12N-R62W		

## WELLPATH DATA (170 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9966.00	90.180	2.350	7304.13	2388.68	2390.52	-99.98	40°58'50.250"N	104°20'17.363"W	0.42	
10062.00	90.740	3.740	7303.36	2484.61	2486.38	-94.88	40°58'51.197"N	104°20'17.297"W	1.56	
10158.00	89.880	2.640	7302.84	2580.53	2582.23	-89.54	40°58'52.144"N	104°20'17.227"W	1.45	
10253.00	90.060	3.970	7302.89	2675.44	2677.06	-84.06	40°58'53.081"N	104°20'17.156"W	1.41	
10349.00	90.370	5.110	7302.53	2771.25	2772.76	-76.46	40°58'54.027"N	104°20'17.057"W	1.23	
10444.00	90.280	5.120	7301.99	2865.99	2867.38	-67.99	40°58'54.962"N	104°20'16.946"W	0.10	
10540.00	89.690	4.940	7302.01	2961.73	2963.01	-59.57	40°58'55.906"N	104°20'16.837"W	0.64	
10636.00	89.720	3.070	7302.51	3057.59	3058.77	-52.87	40°58'56.853"N	104°20'16.749"W	1.95	
10732.00	90.180	2.710	7302.59	3153.53	3154.65	-48.03	40°58'57.800"N	104°20'16.686"W	0.61	
10827.00	89.080	2.230	7303.21	3248.49	3249.56	-43.93	40°58'58.738"N	104°20'16.633"W	1.26	
10923.00	88.580	1.460	7305.17	3344.45	3345.49	-40.84	40°58'59.686"N	104°20'16.593"W	0.96	
11019.00	90.090	0.420	7306.28	3440.44	3441.46	-39.27	40°59'00.634"N	104°20'16.572"W	1.91	
11114.00	90.490	1.220	7305.80	3535.44	3536.45	-37.91	40°59'01.572"N	104°20'16.554"W	0.94	
11210.00	90.180	1.050	7305.24	3631.44	3632.43	-36.01	40°59'02.521"N	104°20'16.530"W	0.37	
11305.00	90.280	0.920	7304.86	3726.44	3727.42	-34.38	40°59'03.459"N	104°20'16.508"W	0.17	
11401.00	90.180	359.580	7304.47	3822.43	3823.41	-33.96	40°59'04.408"N	104°20'16.503"W	1.40	
11497.00	89.970	359.420	7304.35	3918.40	3919.41	-34.79	40°59'05.356"N	104°20'16.514"W	0.28	
11593.00	90.000	359.030	7304.37	4014.36	4015.40	-36.09	40°59'06.305"N	104°20'16.531"W	0.41	
11689.00	90.030	359.190	7304.35	4110.31	4111.39	-37.58	40°59'07.253"N	104°20'16.550"W	0.17	
11784.00	90.000	359.410	7304.32	4205.28	4206.38	-38.74	40°59'08.192"N	104°20'16.565"W	0.23	
11880.00	90.550	359.740	7303.86	4301.25	4302.38	-39.46	40°59'09.140"N	104°20'16.574"W	0.67	
11974.00	89.940	0.390	7303.46	4395.24	4396.37	-39.35	40°59'10.069"N	104°20'16.573"W	0.95	
12067.00	89.910	0.700	7303.58	4488.24	4489.37	-38.47	40°59'10.988"N	104°20'16.562"W	0.33	
12162.00	89.970	0.150	7303.68	4583.23	4584.37	-37.76	40°59'11.926"N	104°20'16.552"W	0.58	
12257.00	89.970	2.770	7303.73	4678.22	4679.33	-35.34	40°59'12.865"N	104°20'16.521"W	2.76	
12353.00	90.000	4.020	7303.75	4774.13	4775.16	-29.66	40°59'13.812"N	104°20'16.447"W	1.30	
12449.00	90.000	4.520	7303.75	4869.96	4870.89	-22.51	40°59'14.757"N	104°20'16.353"W	0.52	
12545.00	90.030	4.080	7303.73	4965.79	4966.62	-15.31	40°59'15.703"N	104°20'16.260"W	0.46	
12640.00	90.000	3.540	7303.70	5060.66	5061.41	-9.00	40°59'16.640"N	104°20'16.177"W	0.57	
12736.00	90.060	2.820	7303.65	5156.59	5157.26	-3.67	40°59'17.587"N	104°20'16.108"W	0.75	



# Actual Wellpath Report

RANDALL CREEK #215-2920H AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	FIFTH CREEK ENERGY	Slot	SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)
Area	COLORADO	Well	RANDALL CREEK #215-2920H
Field	WELD COUNTY (NAD 83 / TN)	Wellbore	RANDALL CREEK #215-2920H AWB
Facility	SEC.29-T12N-R62W		

## WELLPATH DATA (170 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12832.00	89.970	2.300	7303.63	5252.54	5253.16	0.62	40°59'18.535"N	104°20'16.052"W	0.55	
12928.00	90.030	1.530	7303.63	5348.53	5349.11	3.82	40°59'19.483"N	104°20'16.010"W	0.80	
13023.00	90.030	1.770	7303.58	5443.52	5444.07	6.56	40°59'20.421"N	104°20'15.974"W	0.25	
13119.00	89.940	3.730	7303.60	5539.46	5539.96	11.16	40°59'21.368"N	104°20'15.914"W	2.04	
13214.00	89.970	2.910	7303.68	5634.38	5634.80	16.67	40°59'22.305"N	104°20'15.843"W	0.86	
13309.00	89.910	1.030	7303.78	5729.36	5729.73	19.93	40°59'23.243"N	104°20'15.800"W	1.98	
13404.00	90.030	0.330	7303.83	5824.36	5824.73	21.06	40°59'24.182"N	104°20'15.785"W	0.75	
13500.00	89.910	359.570	7303.88	5920.34	5920.73	20.98	40°59'25.130"N	104°20'15.786"W	0.80	
13596.00	90.090	0.030	7303.88	6016.32	6016.73	20.64	40°59'26.079"N	104°20'15.791"W	0.51	
13691.00	89.970	0.920	7303.83	6111.32	6111.72	21.43	40°59'27.018"N	104°20'15.781"W	0.95	
13786.00	89.850	1.890	7303.98	6206.32	6206.69	23.76	40°59'27.956"N	104°20'15.750"W	1.03	
13882.00	89.880	1.710	7304.20	6302.30	6302.64	26.77	40°59'28.904"N	104°20'15.711"W	0.19	
13977.00	90.000	1.930	7304.30	6397.29	6397.60	29.79	40°59'29.842"N	104°20'15.672"W	0.26	
14072.00	89.880	2.320	7304.40	6492.27	6492.53	33.31	40°59'30.780"N	104°20'15.626"W	0.43	
14168.00	89.970	2.820	7304.53	6588.23	6588.43	37.62	40°59'31.728"N	104°20'15.569"W	0.53	
14262.00	89.940	2.890	7304.60	6682.17	6682.32	42.30	40°59'32.655"N	104°20'15.508"W	0.08	
14357.00	90.000	3.590	7304.65	6777.09	6777.16	47.67	40°59'33.593"N	104°20'15.438"W	0.74	
14452.00	90.090	3.980	7304.58	6871.97	6871.96	53.94	40°59'34.529"N	104°20'15.357"W	0.42	
14547.00	90.030	3.980	7304.48	6966.83	6966.73	60.53	40°59'35.466"N	104°20'15.271"W	0.06	
14641.00	90.000	3.210	7304.45	7060.72	7060.54	66.43	40°59'36.392"N	104°20'15.194"W	0.82	
14736.00	90.060	1.350	7304.40	7155.69	7155.46	70.21	40°59'37.330"N	104°20'15.144"W	1.96	
14831.00	90.060	1.650	7304.30	7250.69	7250.43	72.69	40°59'38.269"N	104°20'15.112"W	0.32	
14925.00	89.970	1.300	7304.28	7344.68	7344.40	75.11	40°59'39.197"N	104°20'15.080"W	0.38	
15020.00	89.970	1.480	7304.33	7439.68	7439.37	77.42	40°59'40.136"N	104°20'15.050"W	0.19	
15115.00	90.000	2.530	7304.35	7534.66	7534.31	80.74	40°59'41.074"N	104°20'15.007"W	1.11	
15209.00	90.060	3.290	7304.31	7628.60	7628.19	85.51	40°59'42.001"N	104°20'14.945"W	0.81	
15304.00	90.030	1.410	7304.23	7723.56	7723.10	89.41	40°59'42.939"N	104°20'14.894"W	1.98	
15399.00	89.910	0.890	7304.28	7818.56	7818.09	91.32	40°59'43.877"N	104°20'14.869"W	0.56	
15494.00	90.030	1.330	7304.33	7913.56	7913.07	93.16	40°59'44.816"N	104°20'14.845"W	0.48	
15589.00	89.940	0.630	7304.35	8008.56	8008.05	94.78	40°59'45.754"N	104°20'14.824"W	0.74	



# Actual Wellpath Report

RANDALL CREEK #215-2920H AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	FIFTH CREEK ENERGY	Slot	SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)
Area	COLORADO	Well	RANDALL CREEK #215-2920H
Field	WELD COUNTY (NAD 83 / TN)	Wellbore	RANDALL CREEK #215-2920H AWB
Facility	SEC.29-T12N-R62W		

## WELLPATH DATA (170 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
15684.00	89.970	359.970	7304.43	8103.55	8103.05	95.28	40°59'46.693"N	104°20'14.817"W	0.70	
15779.00	90.030	359.310	7304.43	8198.53	8198.05	94.68	40°59'47.632"N	104°20'14.825"W	0.70	
15874.00	90.090	358.900	7304.33	8293.49	8293.04	93.20	40°59'48.570"N	104°20'14.845"W	0.44	
15969.00	89.940	359.170	7304.31	8388.44	8388.02	91.60	40°59'49.509"N	104°20'14.865"W	0.33	
16063.00	89.910	359.730	7304.43	8482.41	8482.02	90.69	40°59'50.437"N	104°20'14.877"W	0.60	
16158.00	89.910	358.680	7304.58	8577.36	8577.01	89.38	40°59'51.376"N	104°20'14.894"W	1.11	
16254.00	89.970	358.970	7304.68	8673.30	8672.99	87.41	40°59'52.324"N	104°20'14.920"W	0.31	
16348.00	89.940	3.510	7304.75	8767.27	8766.94	89.44	40°59'53.253"N	104°20'14.894"W	4.83	
16442.00	90.180	4.500	7304.65	8861.13	8860.71	96.01	40°59'54.179"N	104°20'14.808"W	1.08	
16536.00	90.180	4.230	7304.36	8954.96	8954.44	103.16	40°59'55.105"N	104°20'14.715"W	0.29	
16630.00	90.060	4.850	7304.16	9048.77	9048.14	110.60	40°59'56.031"N	104°20'14.618"W	0.67	
16725.00	90.060	5.350	7304.06	9143.51	9142.76	119.05	40°59'56.966"N	104°20'14.507"W	0.53	
16820.00	90.060	4.000	7303.96	9238.30	9237.45	126.79	40°59'57.902"N	104°20'14.406"W	1.42	
16915.00	90.220	3.290	7303.73	9333.19	9332.25	132.83	40°59'58.838"N	104°20'14.328"W	0.77	
17010.00	90.090	1.900	7303.47	9428.15	9427.15	137.13	40°59'59.776"N	104°20'14.272"W	1.47	
17104.00	90.000	1.150	7303.40	9522.14	9521.12	139.63	41°00'00.704"N	104°20'14.239"W	0.80	
17199.00	90.030	1.940	7303.37	9617.13	9616.08	142.19	41°00'01.643"N	104°20'14.206"W	0.83	
17293.00	89.970	1.840	7303.37	9711.12	9710.03	145.29	41°00'02.571"N	104°20'14.165"W	0.12	
17312.00	89.940	2.320	7303.39	9730.11	9729.02	145.98	41°00'02.759"N	104°20'14.156"W	2.53	LAST BHGE MWD SURVEY
17336.00	89.940	2.320	7303.41	9754.11	9753.00	146.95	41°00'02.995"N	104°20'14.143"W	0.00	PROJECTION TO BIT

## HOLE & CASING SECTIONS - Ref Wellbore: RANDALL CREEK #215-2920H AWB Ref Wellpath: RANDALL CREEK #215-2920H AWP

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]
9.625in Casing Surface	21.00	1531.00	1510.00	21.00	1530.81	0.00	0.00	0.13	3.65
8.5in Open Hole	1531.00	17336.00	15805.00	1530.81	7303.41	0.13	3.65	9753.00	146.95



# Actual Wellpath Report

RANDALL CREEK #215-2920H AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	FIFTH CREEK ENERGY	Slot	SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)
Area	COLORADO	Well	RANDALL CREEK #215-2920H
Field	WELD COUNTY (NAD 83 / TN)	Wellbore	RANDALL CREEK #215-2920H AWB
Facility	SEC.29-T12N-R62W		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.20-T12N-R62W	5.00	0.00	0.00	3320935.94	1599809.91	40°58'26.630"N	104°20'16.060"W	polygon
SEC.20-T12N-R62W (CO/WY BORDER)	5.00	0.00	0.00	3320935.94	1599809.91	40°58'26.630"N	104°20'16.060"W	polygon
SEC.29-T12N-R62W	5.00	0.00	0.00	3320935.94	1599809.91	40°58'26.630"N	104°20'16.060"W	polygon
RANDALL CREEK #215-2920H BHL REV-2 (300'FNL & 1000'FEL, SEC.20)	7227.00	9754.47	151.05	3320959.14	1609565.86	41°00'03.010"N	104°20'14.090"W	point
RANDALL CREEK #215-2920H HEEL REV-2 (300'FSL & 1000'FEL, SEC.29)	7227.00	49.59	-173.36	3320761.95	1599857.23	40°58'27.120"N	104°20'18.320"W	point
RANDALL CREEK #215-2920H BHL REV-1 (300'FNL & 1000'FEL, SEC.20)	7254.00	9754.47	151.05	3320959.14	1609565.86	41°00'03.010"N	104°20'14.090"W	point
RANDALL CREEK #215-2920H HEEL REV-1 (300'FSL & 1000'FEL, SEC.29)	7254.00	49.59	-173.36	3320761.95	1599857.23	40°58'27.120"N	104°20'18.320"W	point
RANDALL CREEK #215-2920H BHL (300'FNL & 1000'FEL, SEC.20)	7262.00	9754.47	151.05	3320959.14	1609565.86	41°00'03.010"N	104°20'14.090"W	point
RANDALL CREEK #215-2920H BHL REV-3 (300'FNL & 1000'FEL, SEC.20)	7272.00	9754.47	151.05	3320959.14	1609565.86	41°00'03.010"N	104°20'14.090"W	point
RANDALL CREEK #215-2920H HEEL (300'FSL & 1000'FEL, SEC.29)	7272.00	49.59	-173.36	3320761.95	1599857.23	40°58'27.120"N	104°20'18.320"W	point
RANDALL CREEK #215-2920H HEEL REV-3 (300'FSL & 1000'FEL, SEC.29)	7272.00	49.59	-173.36	3320761.95	1599857.23	40°58'27.120"N	104°20'18.320"W	point
SEC.20/29-T12N-R62W HARDLINES (300'FNL/FSL/FEL/FWL)	7459.00	0.00	0.00	3320935.94	1599809.91	40°58'26.630"N	104°20'16.060"W	polygon



# Actual Wellpath Report

RANDALL CREEK #215-2920H AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	FIFTH CREEK ENERGY	Slot	SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)
Area	COLORADO	Well	RANDALL CREEK #215-2920H
Field	WELD COUNTY (NAD 83 / TN)	Wellbore	RANDALL CREEK #215-2920H AWB
Facility	SEC.29-T12N-R62W		

## WELLPATH COMPOSITION - Ref Wellbore: RANDALL CREEK #215-2920H AWB Ref Wellpath: RANDALL CREEK #215-2920H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
21.00	1502.50	ISCWSA MWD, Rev. 4 (Standard)	SURFACE SURVEYS <213.50-1502.50>	RANDALL CREEK #215-2920H AWB
1502.50	17312.00	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)	BHGE ATCURVE+SR+AC+ROCKIES <1606-17312>	RANDALL CREEK #215-2920H AWB
17312.00	17336.00	Blind Drilling (std)	Projection to bit	RANDALL CREEK #215-2920H AWB



# Actual Wellpath Report

RANDALL CREEK #215-2920H AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	FIFTH CREEK ENERGY	Slot	SLOT#02 RANDALL CREEK #215-2920H (250'FSL & 825'FEL, SEC.29)
Area	COLORADO	Well	RANDALL CREEK #215-2920H
Field	WELD COUNTY (NAD 83 / TN)	Wellbore	RANDALL CREEK #215-2920H AWB
Facility	SEC.29-T12N-R62W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1502.50	1.190	142.470	1502.32	TIED TO SURFACE SURVEYS
1606.00	2.220	176.110	1605.77	FIRST BHGE MWD SURVEY
7624.00	84.328	4.086	7257.85	CROSSED 300' SETBACK
17312.00	89.940	2.320	7303.39	LAST BHGE MWD SURVEY
17336.00	89.940	2.320	7303.41	PROJECTION TO BIT