



Planned Wellpath Report

ANTELOPE FEDERAL 44-19-18XRLNB PWP (REV-A.0)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#02 ANTELOPE FEDERAL 44-19-18XRLNB (225'FSL & 1188'FEL, SEC.19)
Area	COLORADO	Well	ANTELOPE FEDERAL 44-19-18XRLNB
Field	WELD COUNTY	Wellbore	ANTELOPE FEDERAL 44-19-18XRLNB PWB
Facility	SEC.19-T05N-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	0.999959	Report Generated	1/10/2018 at 12:10:13 PM
Convergence at slot	0.74° East	Database/Source file	Denver/ANTELOPE_FEDERAL_44-19-18XRLNB_PWP__REV-A.0_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.30	-20.04	3317323.66	1382713.65	40°22'42.082"N	104°21'39.499"W
Facility Reference Pt			3317343.70	1382714.21	40°22'42.085"N	104°21'39.240"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'KB) (RKB) to Facility Vertical Datum	4675.00ft
Horizontal Reference Pt	Slot	RIG (17'KB) (RKB) to Mean Sea Level	4675.00ft
Vertical Reference Pt	RIG (17'KB) (RKB)	RIG (17'KB) (RKB) to Mud Line at Slot (SLOT#02 ANTELOPE FEDERAL 44-19-18XRLNB (225'FSL & 1188'FEL, SEC.19))	4675.00ft
MD Reference Pt	RIG (17'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	3.19°



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Area	COLORADO	Well	ANTELOPE FEDERAL 44-19-18XRLNB
Field	WELD COUNTY	Wellbore	ANTELOPE FEDERAL 44-19-18XRLNB PWB
Facility	SEC.19-T05N-R62W		

WELLPATH DATA (169 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	125.536	0.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
17.00	0.000	125.536	17.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	Tie On
117.00†	0.000	125.536	117.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
217.00†	0.000	125.536	217.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
317.00†	0.000	125.536	317.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
417.00†	0.000	125.536	417.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
517.00†	0.000	125.536	517.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
617.00†	0.000	125.536	617.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
717.00†	0.000	125.536	717.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
817.00†	0.000	125.536	817.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
917.00†	0.000	125.536	917.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
1017.00†	0.000	125.536	1017.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
1117.00†	0.000	125.536	1117.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
1217.00†	0.000	125.536	1217.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
1317.00†	0.000	125.536	1317.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
1417.00†	0.000	125.536	1417.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
1517.00†	0.000	125.536	1517.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
1617.00†	0.000	125.536	1617.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	
1700.00	0.000	125.536	1700.00	0.00	0.00	0.00	40°22'42.082"N	104°21'39.499"W	0.00	End of Tangent
1717.00†	0.340	125.536	1717.00	-0.03	-0.03	0.04	40°22'42.082"N	104°21'39.498"W	2.00	
1817.00†	2.340	125.536	1816.97	-1.28	-1.39	1.94	40°22'42.068"N	104°21'39.474"W	2.00	
1917.00†	4.340	125.536	1916.79	-4.40	-4.77	6.68	40°22'42.035"N	104°21'39.413"W	2.00	
2017.00†	6.340	125.536	2016.35	-9.37	-10.18	14.26	40°22'41.981"N	104°21'39.315"W	2.00	
2093.71	7.874	125.536	2092.47	-14.45	-15.70	21.98	40°22'41.927"N	104°21'39.215"W	2.00	End of Build (XS)
2117.00†	7.874	125.536	2115.54	-16.16	-17.55	24.58	40°22'41.909"N	104°21'39.181"W	0.00	
2217.00†	7.874	125.536	2214.60	-23.49	-25.52	35.73	40°22'41.830"N	104°21'39.037"W	0.00	
2317.00†	7.874	125.536	2313.66	-30.82	-33.48	46.87	40°22'41.751"N	104°21'38.893"W	0.00	
2417.00†	7.874	125.536	2412.71	-38.15	-41.44	58.02	40°22'41.672"N	104°21'38.749"W	0.00	
2517.00†	7.874	125.536	2511.77	-45.48	-49.40	69.17	40°22'41.594"N	104°21'38.605"W	0.00	
2617.00†	7.874	125.536	2610.83	-52.81	-57.37	80.32	40°22'41.515"N	104°21'38.461"W	0.00	



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Area	COLORADO	Well	ANTELOPE FEDERAL 44-19-18XRLNB
Field	WELD COUNTY	Wellbore	ANTELOPE FEDERAL 44-19-18XRLNB PWB
Facility	SEC.19-T05N-R62W		

WELLPATH DATA (169 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2717.00†	7.874	125.536	2709.88	-60.14	-65.33	91.47	40°22'41.436"N	104°21'38.317"W	0.00	
2817.00†	7.874	125.536	2808.94	-67.47	-73.29	102.62	40°22'41.358"N	104°21'38.173"W	0.00	
2917.00†	7.874	125.536	2908.00	-74.80	-81.25	113.76	40°22'41.279"N	104°21'38.029"W	0.00	
3017.00†	7.874	125.536	3007.06	-82.13	-89.22	124.91	40°22'41.200"N	104°21'37.885"W	0.00	
3117.00†	7.874	125.536	3106.11	-89.47	-97.18	136.06	40°22'41.122"N	104°21'37.741"W	0.00	
3217.00†	7.874	125.536	3205.17	-96.80	-105.14	147.21	40°22'41.043"N	104°21'37.597"W	0.00	
3317.00†	7.874	125.536	3304.23	-104.13	-113.10	158.36	40°22'40.964"N	104°21'37.453"W	0.00	
3417.00†	7.874	125.536	3403.28	-111.46	-121.07	169.51	40°22'40.886"N	104°21'37.309"W	0.00	
3517.00†	7.874	125.536	3502.34	-118.79	-129.03	180.65	40°22'40.807"N	104°21'37.165"W	0.00	
3617.00†	7.874	125.536	3601.40	-126.12	-136.99	191.80	40°22'40.728"N	104°21'37.021"W	0.00	
3717.00†	7.874	125.536	3700.46	-133.45	-144.95	202.95	40°22'40.650"N	104°21'36.877"W	0.00	
3817.00†	7.874	125.536	3799.51	-140.78	-152.92	214.10	40°22'40.571"N	104°21'36.733"W	0.00	
3917.00†	7.874	125.536	3898.57	-148.11	-160.88	225.25	40°22'40.492"N	104°21'36.589"W	0.00	
4017.00†	7.874	125.536	3997.63	-155.44	-168.84	236.40	40°22'40.414"N	104°21'36.444"W	0.00	
4117.00†	7.874	125.536	4096.68	-162.77	-176.80	247.54	40°22'40.335"N	104°21'36.300"W	0.00	
4217.00†	7.874	125.536	4195.74	-170.10	-184.77	258.69	40°22'40.256"N	104°21'36.156"W	0.00	
4317.00†	7.874	125.536	4294.80	-177.43	-192.73	269.84	40°22'40.177"N	104°21'36.012"W	0.00	
4417.00†	7.874	125.536	4393.86	-184.76	-200.69	280.99	40°22'40.099"N	104°21'35.868"W	0.00	
4517.00†	7.874	125.536	4492.91	-192.09	-208.66	292.14	40°22'40.020"N	104°21'35.724"W	0.00	
4617.00†	7.874	125.536	4591.97	-199.42	-216.62	303.29	40°22'39.941"N	104°21'35.580"W	0.00	
4717.00†	7.874	125.536	4691.03	-206.75	-224.58	314.44	40°22'39.863"N	104°21'35.436"W	0.00	
4817.00†	7.874	125.536	4790.08	-214.08	-232.54	325.58	40°22'39.784"N	104°21'35.292"W	0.00	
4917.00†	7.874	125.536	4889.14	-221.41	-240.51	336.73	40°22'39.705"N	104°21'35.148"W	0.00	
5017.00†	7.874	125.536	4988.20	-228.74	-248.47	347.88	40°22'39.627"N	104°21'35.004"W	0.00	
5117.00†	7.874	125.536	5087.26	-236.07	-256.43	359.03	40°22'39.548"N	104°21'34.860"W	0.00	
5217.00†	7.874	125.536	5186.31	-243.40	-264.39	370.18	40°22'39.469"N	104°21'34.716"W	0.00	
5317.00†	7.874	125.536	5285.37	-250.74	-272.36	381.33	40°22'39.391"N	104°21'34.572"W	0.00	
5417.00†	7.874	125.536	5384.43	-258.07	-280.32	392.47	40°22'39.312"N	104°21'34.428"W	0.00	
5517.00†	7.874	125.536	5483.48	-265.40	-288.28	403.62	40°22'39.233"N	104°21'34.284"W	0.00	
5617.00†	7.874	125.536	5582.54	-272.73	-296.24	414.77	40°22'39.155"N	104°21'34.140"W	0.00	



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Area	COLORADO	Well	ANTELOPE FEDERAL 44-19-18XRLNB
Field	WELD COUNTY	Wellbore	ANTELOPE FEDERAL 44-19-18XRLNB PWB
Facility	SEC.19-T05N-R62W		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5717.00†	7.874	125.536	5681.60	-280.06	-304.21	425.92	40°22'39.076"N	104°21'33.996"W	0.00	
5796.75	7.874	125.536	5760.59	-285.90	-310.56	434.81	40°22'39.013"N	104°21'33.881"W	0.00	End of Tangent (XS)
5817.00†	6.912	111.624	5780.68	-287.03	-311.81	437.07	40°22'39.001"N	104°21'33.852"W	10.00	
5917.00†	9.863	40.732	5879.83	-282.13	-307.53	448.28	40°22'39.043"N	104°21'33.707"W	10.00	
6017.00†	18.599	19.844	5976.72	-260.01	-285.98	459.31	40°22'39.256"N	104°21'33.564"W	10.00	
6117.00†	28.173	12.412	6068.42	-221.33	-247.83	469.83	40°22'39.633"N	104°21'33.428"W	10.00	
6217.00†	37.954	8.565	6152.14	-167.27	-194.23	479.50	40°22'40.163"N	104°21'33.303"W	10.00	
6317.00†	47.816	6.116	6225.32	-99.48	-126.81	488.05	40°22'40.829"N	104°21'33.193"W	10.00	
6417.00†	57.716	4.334	6285.76	-20.02	-47.62	495.21	40°22'41.611"N	104°21'33.100"W	10.00	
6517.00†	67.635	2.906	6331.61	68.71	40.93	500.77	40°22'42.486"N	104°21'33.028"W	10.00	
6617.00†	77.566	1.670	6361.47	164.00	136.16	504.54	40°22'43.427"N	104°21'32.980"W	10.00	
6717.00†	87.501	0.526	6374.45	262.96	235.17	506.43	40°22'44.406"N	104°21'32.955"W	10.00	
6742.15	90.000	0.244	6375.00†	288.06	260.30	506.60	40°22'44.654"N	104°21'32.953"W	10.00	End of 3D Arc (XS)
6817.00†	90.000	0.244	6375.00	362.82	335.16	506.92	40°22'45.394"N	104°21'32.949"W	0.00	
6917.00†	90.000	0.244	6375.00	462.69	435.16	507.34	40°22'46.382"N	104°21'32.943"W	0.00	
7017.00†	90.000	0.244	6375.00	562.56	535.16	507.77	40°22'47.370"N	104°21'32.938"W	0.00	
7117.00†	90.000	0.244	6375.00	662.42	635.15	508.19	40°22'48.358"N	104°21'32.932"W	0.00	
7217.00†	90.000	0.244	6375.00	762.29	735.15	508.62	40°22'49.346"N	104°21'32.927"W	0.00	
7317.00†	90.000	0.244	6375.00	862.16	835.15	509.05	40°22'50.335"N	104°21'32.921"W	0.00	
7417.00†	90.000	0.244	6375.00	962.03	935.15	509.47	40°22'51.323"N	104°21'32.916"W	0.00	
7517.00†	90.000	0.244	6375.00	1061.90	1035.15	509.90	40°22'52.311"N	104°21'32.910"W	0.00	
7617.00†	90.000	0.244	6375.00	1161.77	1135.15	510.32	40°22'53.299"N	104°21'32.905"W	0.00	
7717.00†	90.000	0.244	6375.00	1261.63	1235.15	510.75	40°22'54.287"N	104°21'32.899"W	0.00	
7817.00†	90.000	0.244	6375.00	1361.50	1335.15	511.17	40°22'55.275"N	104°21'32.894"W	0.00	
7917.00†	90.000	0.244	6375.00	1461.37	1435.15	511.60	40°22'56.264"N	104°21'32.888"W	0.00	
8017.00†	90.000	0.244	6375.00	1561.24	1535.15	512.03	40°22'57.252"N	104°21'32.883"W	0.00	
8117.00†	90.000	0.244	6375.00	1661.11	1635.15	512.45	40°22'58.240"N	104°21'32.877"W	0.00	
8217.00†	90.000	0.244	6375.00	1760.97	1735.14	512.88	40°22'59.228"N	104°21'32.872"W	0.00	
8317.00†	90.000	0.244	6375.00	1860.84	1835.14	513.30	40°23'00.216"N	104°21'32.866"W	0.00	
8417.00†	90.000	0.244	6375.00	1960.71	1935.14	513.73	40°23'01.204"N	104°21'32.860"W	0.00	



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Facility	SEC.19-T05N-R62W		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS ["/100ft]	Comments
8517.00†	90.000	0.244	6375.00	2060.58	2035.14	514.15	40°23'02.193"N	104°21'32.855"W	0.00	
8617.00†	90.000	0.244	6375.00	2160.45	2135.14	514.58	40°23'03.181"N	104°21'32.849"W	0.00	
8717.00†	90.000	0.244	6375.00	2260.31	2235.14	515.01	40°23'04.169"N	104°21'32.844"W	0.00	
8817.00†	90.000	0.244	6375.00	2360.18	2335.14	515.43	40°23'05.157"N	104°21'32.838"W	0.00	
8917.00†	90.000	0.244	6375.00	2460.05	2435.14	515.86	40°23'06.145"N	104°21'32.833"W	0.00	
9017.00†	90.000	0.244	6375.00	2559.92	2535.14	516.28	40°23'07.133"N	104°21'32.827"W	0.00	
9117.00†	90.000	0.244	6375.00	2659.79	2635.14	516.71	40°23'08.121"N	104°21'32.822"W	0.00	
9217.00†	90.000	0.244	6375.00	2759.65	2735.14	517.13	40°23'09.110"N	104°21'32.816"W	0.00	
9317.00†	90.000	0.244	6375.00	2859.52	2835.13	517.56	40°23'10.098"N	104°21'32.811"W	0.00	
9417.00†	90.000	0.244	6375.00	2959.39	2935.13	517.99	40°23'11.086"N	104°21'32.805"W	0.00	
9517.00†	90.000	0.244	6375.00	3059.26	3035.13	518.41	40°23'12.074"N	104°21'32.800"W	0.00	
9617.00†	90.000	0.244	6375.00	3159.13	3135.13	518.84	40°23'13.062"N	104°21'32.794"W	0.00	
9717.00†	90.000	0.244	6375.00	3259.00	3235.13	519.26	40°23'14.050"N	104°21'32.789"W	0.00	
9817.00†	90.000	0.244	6375.00	3358.86	3335.13	519.69	40°23'15.039"N	104°21'32.783"W	0.00	
9917.00†	90.000	0.244	6375.00	3458.73	3435.13	520.11	40°23'16.027"N	104°21'32.778"W	0.00	
10017.00†	90.000	0.244	6375.00	3558.60	3535.13	520.54	40°23'17.015"N	104°21'32.772"W	0.00	
10117.00†	90.000	0.244	6375.00	3658.47	3635.13	520.97	40°23'18.003"N	104°21'32.766"W	0.00	
10217.00†	90.000	0.244	6375.00	3758.34	3735.13	521.39	40°23'18.991"N	104°21'32.761"W	0.00	
10317.00†	90.000	0.244	6375.00	3858.20	3835.13	521.82	40°23'19.979"N	104°21'32.755"W	0.00	
10417.00†	90.000	0.244	6375.00	3958.07	3935.12	522.24	40°23'20.968"N	104°21'32.750"W	0.00	
10517.00†	90.000	0.244	6375.00	4057.94	4035.12	522.67	40°23'21.956"N	104°21'32.744"W	0.00	
10617.00†	90.000	0.244	6375.00	4157.81	4135.12	523.09	40°23'22.944"N	104°21'32.739"W	0.00	
10717.00†	90.000	0.244	6375.00	4257.68	4235.12	523.52	40°23'23.932"N	104°21'32.733"W	0.00	
10817.00†	90.000	0.244	6375.00	4357.54	4335.12	523.95	40°23'24.920"N	104°21'32.728"W	0.00	
10917.00†	90.000	0.244	6375.00	4457.41	4435.12	524.37	40°23'25.908"N	104°21'32.722"W	0.00	
11017.00†	90.000	0.244	6375.00	4557.28	4535.12	524.80	40°23'26.896"N	104°21'32.717"W	0.00	
11117.00†	90.000	0.244	6375.00	4657.15	4635.12	525.22	40°23'27.885"N	104°21'32.711"W	0.00	
11217.00†	90.000	0.244	6375.00	4757.02	4735.12	525.65	40°23'28.873"N	104°21'32.706"W	0.00	
11317.00†	90.000	0.244	6375.00	4856.89	4835.12	526.07	40°23'29.861"N	104°21'32.700"W	0.00	
11417.00†	90.000	0.244	6375.00	4956.75	4935.12	526.50	40°23'30.849"N	104°21'32.695"W	0.00	



Planned Wellpath Report

ANTELOPE FEDERAL 44-19-18XRLNB PWP (REV-A.0)



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#02 ANTELOPE FEDERAL 44-19-18XRLNB (225'FSL & 1188'FEL, SEC.19)
Area	COLORADO	Well	ANTELOPE FEDERAL 44-19-18XRLNB
Field	WELD COUNTY	Wellbore	ANTELOPE FEDERAL 44-19-18XRLNB PWB
Facility	SEC.19-T05N-R62W		

WELLPATH DATA (169 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS ["/100ft]	Comments
11517.00†	90.000	0.244	6375.00	5056.62	5035.11	526.93	40°23'31.837"N	104°21'32.689"W	0.00	
11617.00†	90.000	0.244	6375.00	5156.49	5135.11	527.35	40°23'32.825"N	104°21'32.684"W	0.00	
11717.00†	90.000	0.244	6375.00	5256.36	5235.11	527.78	40°23'33.814"N	104°21'32.678"W	0.00	
11817.00†	90.000	0.244	6375.00	5356.23	5335.11	528.20	40°23'34.802"N	104°21'32.672"W	0.00	
11917.00†	90.000	0.244	6375.00	5456.09	5435.11	528.63	40°23'35.790"N	104°21'32.667"W	0.00	
12017.00†	90.000	0.244	6375.00	5555.96	5535.11	529.05	40°23'36.778"N	104°21'32.661"W	0.00	
12117.00†	90.000	0.244	6375.00	5655.83	5635.11	529.48	40°23'37.766"N	104°21'32.656"W	0.00	
12217.00†	90.000	0.244	6375.00	5755.70	5735.11	529.91	40°23'38.754"N	104°21'32.650"W	0.00	
12317.00†	90.000	0.244	6375.00	5855.57	5835.11	530.33	40°23'39.742"N	104°21'32.645"W	0.00	
12417.00†	90.000	0.244	6375.00	5955.43	5935.11	530.76	40°23'40.731"N	104°21'32.639"W	0.00	
12517.00†	90.000	0.244	6375.00	6055.30	6035.11	531.18	40°23'41.719"N	104°21'32.634"W	0.00	
12617.00†	90.000	0.244	6375.00	6155.17	6135.10	531.61	40°23'42.707"N	104°21'32.628"W	0.00	
12717.00†	90.000	0.244	6375.00	6255.04	6235.10	532.03	40°23'43.695"N	104°21'32.623"W	0.00	
12817.00†	90.000	0.244	6375.00	6354.91	6335.10	532.46	40°23'44.683"N	104°21'32.617"W	0.00	
12917.00†	90.000	0.244	6375.00	6454.78	6435.10	532.89	40°23'45.671"N	104°21'32.612"W	0.00	
13017.00†	90.000	0.244	6375.00	6554.64	6535.10	533.31	40°23'46.660"N	104°21'32.606"W	0.00	
13117.00†	90.000	0.244	6375.00	6654.51	6635.10	533.74	40°23'47.648"N	104°21'32.601"W	0.00	
13217.00†	90.000	0.244	6375.00	6754.38	6735.10	534.16	40°23'48.636"N	104°21'32.595"W	0.00	
13317.00†	90.000	0.244	6375.00	6854.25	6835.10	534.59	40°23'49.624"N	104°21'32.590"W	0.00	
13417.00†	90.000	0.244	6375.00	6954.12	6935.10	535.01	40°23'50.612"N	104°21'32.584"W	0.00	
13517.00†	90.000	0.244	6375.00	7053.98	7035.10	535.44	40°23'51.600"N	104°21'32.578"W	0.00	
13617.00†	90.000	0.244	6375.00	7153.85	7135.10	535.87	40°23'52.588"N	104°21'32.573"W	0.00	
13717.00†	90.000	0.244	6375.00	7253.72	7235.09	536.29	40°23'53.577"N	104°21'32.567"W	0.00	
13817.00†	90.000	0.244	6375.00	7353.59	7335.09	536.72	40°23'54.565"N	104°21'32.562"W	0.00	
13917.00†	90.000	0.244	6375.00	7453.46	7435.09	537.14	40°23'55.553"N	104°21'32.556"W	0.00	
14017.00†	90.000	0.244	6375.00	7553.32	7535.09	537.57	40°23'56.541"N	104°21'32.551"W	0.00	
14117.00†	90.000	0.244	6375.00	7653.19	7635.09	537.99	40°23'57.529"N	104°21'32.545"W	0.00	
14217.00†	90.000	0.244	6375.00	7753.06	7735.09	538.42	40°23'58.517"N	104°21'32.540"W	0.00	
14317.00†	90.000	0.244	6375.00	7852.93	7835.09	538.85	40°23'59.506"N	104°21'32.534"W	0.00	
14417.00†	90.000	0.244	6375.00	7952.80	7935.09	539.27	40°24'00.494"N	104°21'32.529"W	0.00	



Planned Wellpath Report

ANTELOPE FEDERAL 44-19-18XRLNB PWP (REV-A.0)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#02 ANTELOPE FEDERAL 44-19-18XRLNB (225'FSL & 1188'FEL, SEC.19)
Area	COLORADO	Well	ANTELOPE FEDERAL 44-19-18XRLNB
Field	WELD COUNTY	Wellbore	ANTELOPE FEDERAL 44-19-18XRLNB PWB
Facility	SEC.19-T05N-R62W		

WELLPATH DATA (169 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
14517.00†	90.000	0.244	6375.00	8052.66	8035.09	539.70	40°24'01.482"N	104°21'32.523"W	0.00	
14617.00†	90.000	0.244	6375.00	8152.53	8135.09	540.12	40°24'02.470"N	104°21'32.518"W	0.00	
14717.00†	90.000	0.244	6375.00	8252.40	8235.09	540.55	40°24'03.458"N	104°21'32.512"W	0.00	
14817.00†	90.000	0.244	6375.00	8352.27	8335.09	540.97	40°24'04.446"N	104°21'32.507"W	0.00	
14917.00†	90.000	0.244	6375.00	8452.14	8435.08	541.40	40°24'05.434"N	104°21'32.501"W	0.00	
15017.00†	90.000	0.244	6375.00	8552.01	8535.08	541.83	40°24'06.423"N	104°21'32.496"W	0.00	
15117.00†	90.000	0.244	6375.00	8651.87	8635.08	542.25	40°24'07.411"N	104°21'32.490"W	0.00	
15217.00†	90.000	0.244	6375.00	8751.74	8735.08	542.68	40°24'08.399"N	104°21'32.484"W	0.00	
15317.00†	90.000	0.244	6375.00	8851.61	8835.08	543.10	40°24'09.387"N	104°21'32.479"W	0.00	
15417.00†	90.000	0.244	6375.00	8951.48	8935.08	543.53	40°24'10.375"N	104°21'32.473"W	0.00	
15517.00†	90.000	0.244	6375.00	9051.35	9035.08	543.95	40°24'11.363"N	104°21'32.468"W	0.00	
15617.00†	90.000	0.244	6375.00	9151.21	9135.08	544.38	40°24'12.352"N	104°21'32.462"W	0.00	
15717.00†	90.000	0.244	6375.00	9251.08	9235.08	544.81	40°24'13.340"N	104°21'32.457"W	0.00	
15817.00†	90.000	0.244	6375.00	9350.95	9335.08	545.23	40°24'14.328"N	104°21'32.451"W	0.00	
15917.00†	90.000	0.244	6375.00	9450.82	9435.08	545.66	40°24'15.316"N	104°21'32.446"W	0.00	
16017.00†	90.000	0.244	6375.00	9550.69	9535.07	546.08	40°24'16.304"N	104°21'32.440"W	0.00	
16117.00†	90.000	0.244	6375.00	9650.55	9635.07	546.51	40°24'17.292"N	104°21'32.435"W	0.00	
16217.00†	90.000	0.244	6375.00	9750.42	9735.07	546.93	40°24'18.280"N	104°21'32.429"W	0.00	
16312.23	90.000	0.244	6375.00 ²	9845.53	9830.30	547.34	40°24'19.222"N	104°21'32.424"W	0.00	End of Tangent (XS)

HOLE & CASING SECTIONS									
- Ref Wellbore: ANTELOPE FEDERAL 44-19-18XRLNB PWB					Ref Wellpath: ANTELOPE FEDERAL 44-19-18XRLNB PWP (REV-A.0)				
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	17.00	1550.00	1533.00	17.00	1550.00	0.00	0.00	0.00	0.00
8.5in Open Hole	1550.00	16312.23	14762.23	1550.00	6375.00	0.00	0.00	9830.30	547.34



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ANTELOPE FEDERAL 44-19-18XRLNB PWP (REV-A.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#02 ANTELOPE FEDERAL 44-19-18XRLNB (225'FSL & 1188'FEL, SEC.19)
Area	COLORADO	Well	ANTELOPE FEDERAL 44-19-18XRLNB
Field	WELD COUNTY	Wellbore	ANTELOPE FEDERAL 44-19-18XRLNB PWB
Facility	SEC.19-T05N-R62W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.18-T05N-R62W		0.00	0.30	20.04	3317343.70	1382714.21	40°22'42.085"N	104°21'39.240"W	polygon
SEC.19-T05N-R62W		0.00	0.30	20.04	3317343.70	1382714.21	40°22'42.085"N	104°21'39.240"W	polygon
2) ANTELOPE FEDERAL 44-19-18XRLNB BHL (470'FNL & 712'FEL, SEC.18)	16312.23	6375.00	9830.30	547.34	3317744.67	1392549.75	40°24'19.222"N	104°21'32.424"W	point
1) ANTELOPE FEDERAL 44-19-18XRLNB LP (470'FSL & 680'FEL, SEC.19)	6742.15	6375.00	260.30	506.60	3317826.85	1382980.42	40°22'44.654"N	104°21'32.953"W	point
SEC.18/19-T05N-R62W (460'SETBACK)		6475.00	0.30	20.04	3317343.70	1382714.21	40°22'42.085"N	104°21'39.240"W	polygon

SURVEY PROGRAM -						
Start MD [ft]		End MD [ft]		Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00		1550.00		Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		ANTELOPE FEDERAL 44-19-18XRLNB PWB
1550.00		16312.23		Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		ANTELOPE FEDERAL 44-19-18XRLNB PWB



Planned Wellpath Report

ANTELOPE FEDERAL 44-19-18XRLNB PWP (REV-A.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#02 ANTELOPE FEDERAL 44-19-18XRLNB (225'FSL & 1188'FEL, SEC.19)
Area	COLORADO	Well	ANTELOPE FEDERAL 44-19-18XRLNB
Field	WELD COUNTY	Wellbore	ANTELOPE FEDERAL 44-19-18XRLNB PWB
Facility	SEC.19-T05N-R62W		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
17.00	0.000	125.536	17.00	Tie On
1700.00	0.000	125.536	1700.00	End of Tangent
2093.71	7.874	125.536	2092.47	End of Build (XS)
5796.75	7.874	125.536	5760.59	End of Tangent (XS)
6742.15	90.000	0.244	6375.00	End of 3D Arc (XS)
16312.23	90.000	0.244	6375.00	End of Tangent (XS)