

SG INTERESTS

Location: COLORADO Slot: SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12)
Field: GUNNISON COUNTY (GRID NORTH) Well: FALCON SEABOARD 11-90-12 #5
Facility: SEC.12-T11S-R90W Wellbore: FALCON SEABOARD 11-90-12 #5 ST01 PWB

Plot reference wellpath is FALCON SEABOARD 11-90-12 #5 ST01 (REV-D.0)

True vertical depths are referenced to AZTEC 777 (18) (RKB)	Grid System: NAD83 / Lambert Colorado SP, Central Zone (502), US feet
Measured depths are referenced to AZTEC 777 (18) (RKB)	North Reference: Grid north
AZTEC 777 (18) (RKB) to Mean Sea Level: 7549 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: guenaler on 10/27/2015

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.12-T11S-R90W			2461109.815	1471471.045	39°06'44.700"N	107°23'57.800"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12)	-13.40	2.24	2461112.058	1471457.641	39°06'44.568"N	107°23'57.768"W
AZTEC 777 (18) (RKB) to Mud line (At Slot: SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12))					7549ft	
Mean Sea Level to Mud line (At Slot: SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12))					0ft	
AZTEC 777 (18) (RKB) to Mean Sea Level					7549ft	

Well Profile Data

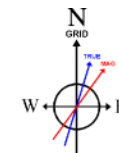
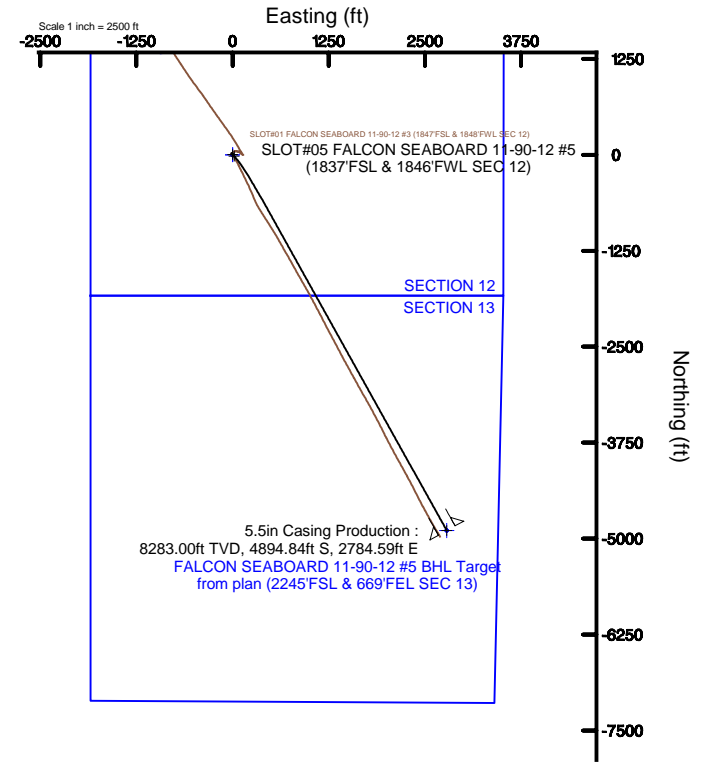
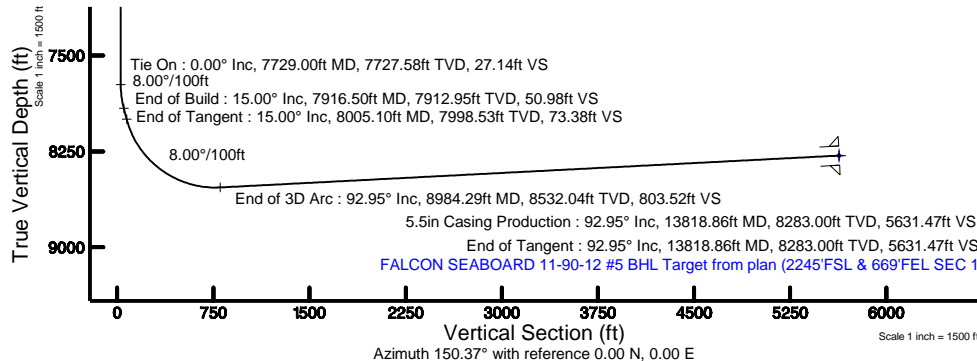
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	7729.00	0.000	157.560	7727.58	-19.39	20.81	0.10	27.14
End of Build	7916.50	15.000	138.000	7912.95	-37.53	37.14	8.00	50.98
End of Tangent	8005.10	15.000	138.000	7998.53	-54.57	52.48	0.00	73.38
End of 3D Arc	8984.29	92.953	150.905	8532.04	-675.93	436.85	8.00	803.52
End of Tangent	13818.86	92.953	150.905	8283.00	-4894.84	2784.59	0.00	5631.47

Survey Program

Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
18.00	5448.00	ISCVSA MWD, Rev. 3	ISCVSA MWD, Rev. 3 (Standard)		FALCON SEABOARD 11-90-12 #5 AWB
5448.00	7729.00	NavTrak	NavTrak (Standard)		FALCON SEABOARD 11-90-12 #5 AWB
7729.00	15000.00	NavTrak	Custom NavTrak (Standard) (AT Curve of 0.01) (Rockies 0.03Gi model)		FALCON SEABOARD 11-90-12 #5 ST01 PWB

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
13818.86	92.953	150.905	8283.00	-4894.84	2784.59	2463896.46	1466563.12	39°05'56.773"N	107°23'21.156"W



BGGM (1945.0 to 2017.0) Dip: 65.43° Field: 51561.6 nT
Magnetic North is 9.48 degrees East of True North (at 9/18/2015)
Grid North is 1.20 degrees West of True North
To correct azimuth from True to Grid add 1.20 degrees
To correct azimuth from Magnetic to Grid add 10.68 degrees



Planned Wellpath Report

FALCON SEABOARD 11-90-12 #5 ST01 (REV-D.0)
Page 1 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	SG INTERESTS	Slot	SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12)
Area	COLORADO	Well	FALCON SEABOARD 11-90-12 #5
Field	GUNNISON COUNTY (GRID NORTH)	Wellbore	FALCON SEABOARD 11-90-12 #5 ST01 PWB
Facility	SEC.12-T11S-R90W	Sidetrack from	FALCON SEABOARD 11-90-12 #5 AWB at 7729.00 MD

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Central Zone (502), US feet	Software System	WellArchitect® 4.1.1
North Reference	Grid	User	Guenaler
Scale	0.999936	Report Generated	10/27/2015 at 12:44:54 PM
Convergence at slot	1.20° West	Database/Source file	WA_DEN_Denver_Defn/FALCON_SEABOARD_11-90-12_#5_ST01_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-13.40	2.24	2461112.06	1471457.64	39°06'44.568"N	107°23'57.768"W
Facility Reference Pt			2461109.82	1471471.05	39°06'44.700"N	107°23'57.800"W
Field Reference Pt			2461109.82	1471471.05	39°06'44.700"N	107°23'57.800"W

WELLPATH DATUM

Calculation method	Minimum curvature	AZTEC 777 (18') (RKB) to Facility Vertical Datum	7549.00ft
Horizontal Reference Pt	Slot	AZTEC 777 (18') (RKB) to Mean Sea Level	7549.00ft
Vertical Reference Pt	AZTEC 777 (18') (RKB)	AZTEC 777 (18') (RKB) to Mud Line at Slot (SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12))	7549.00ft
MD Reference Pt	AZTEC 777 (18') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	150.37°



Planned Wellpath Report

FALCON SEABOARD 11-90-12 #5 ST01 (REV-D.0)

Page 2 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	SG INTERESTS	Slot	SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12)
Area	COLORADO	Well	FALCON SEABOARD 11-90-12 #5
Field	GUNNISON COUNTY (GRID NORTH)	Wellbore	FALCON SEABOARD 11-90-12 #5 ST01 PWB
Facility	SEC.12-T11S-R90W	Sidetrack from	FALCON SEABOARD 11-90-12 #5 AWB at 7729.00 MD

WELLPATH DATA (125 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	355.900	0.00	0.00	0.00	0.00	39°06'44.568"N	107°23'57.768"W	0.00	
650.00	0.900	355.900	649.97	-4.61	5.09	-0.36	39°06'44.618"N	107°23'57.774"W	0.14	
894.00	2.200	343.600	893.88	-10.89	11.50	-1.82	39°06'44.681"N	107°23'57.794"W	0.55	
1143.00	1.900	307.300	1142.73	-19.35	18.58	-6.46	39°06'44.750"N	107°23'57.855"W	0.53	
1396.00	1.500	249.700	1395.64	-23.74	19.98	-12.90	39°06'44.763"N	107°23'57.937"W	0.66	
1648.00	0.500	143.100	1647.61	-23.19	17.95	-15.33	39°06'44.742"N	107°23'57.967"W	0.68	
1900.00	0.700	125.500	1899.59	-20.70	16.18	-13.42	39°06'44.725"N	107°23'57.943"W	0.11	
2153.00	1.500	108.100	2152.54	-16.85	14.25	-9.01	39°06'44.707"N	107°23'57.886"W	0.34	
2407.00	2.100	102.300	2406.42	-11.28	12.23	-1.31	39°06'44.689"N	107°23'57.788"W	0.25	
2659.00	1.100	121.000	2658.32	-6.08	10.00	5.28	39°06'44.668"N	107°23'57.704"W	0.44	
2912.00	0.900	94.400	2911.28	-2.85	8.60	9.34	39°06'44.655"N	107°23'57.652"W	0.20	
3165.00	0.100	244.500	3164.27	-1.76	8.35	11.12	39°06'44.653"N	107°23'57.629"W	0.39	
3417.00	0.600	270.100	3416.27	-2.43	8.26	9.60	39°06'44.652"N	107°23'57.648"W	0.20	
3669.00	1.000	259.100	3668.24	-3.79	7.84	6.13	39°06'44.647"N	107°23'57.692"W	0.17	
3922.00	1.000	264.100	3921.20	-5.39	7.20	1.76	39°06'44.639"N	107°23'57.748"W	0.03	
4175.00	0.100	354.900	4174.19	-6.47	7.19	-0.45	39°06'44.639"N	107°23'57.776"W	0.40	
4428.00	0.500	132.700	4427.19	-5.62	6.66	0.34	39°06'44.634"N	107°23'57.765"W	0.23	
4681.00	1.000	128.400	4680.16	-2.52	4.54	2.88	39°06'44.613"N	107°23'57.733"W	0.20	
4934.00	1.500	120.600	4933.10	2.40	1.49	7.46	39°06'44.584"N	107°23'57.674"W	0.21	
5124.00	2.100	154.900	5123.01	8.03	-2.93	11.08	39°06'44.541"N	107°23'57.627"W	0.63	
5188.00	2.500	155.400	5186.96	10.59	-5.26	12.16	39°06'44.518"N	107°23'57.612"W	0.63	
5314.00	3.100	153.000	5312.81	16.73	-10.80	14.85	39°06'44.464"N	107°23'57.577"W	0.49	
5448.00	2.800	145.700	5446.63	23.61	-16.73	18.34	39°06'44.406"N	107°23'57.531"W	0.36	
5558.00	0.310	122.740	5556.59	26.55	-19.11	20.10	39°06'44.383"N	107°23'57.508"W	2.29	
5621.00	0.040	228.460	5619.58	26.71	-19.22	20.23	39°06'44.382"N	107°23'57.506"W	0.51	
5685.00	0.030	200.450	5683.58	26.72	-19.25	20.20	39°06'44.382"N	107°23'57.507"W	0.03	
5748.00	0.040	76.310	5746.58	26.74	-19.26	20.22	39°06'44.382"N	107°23'57.506"W	0.10	
5812.00	0.040	237.890	5810.58	26.75	-19.27	20.22	39°06'44.382"N	107°23'57.506"W	0.12	
5875.00	0.030	149.570	5873.58	26.76	-19.29	20.21	39°06'44.382"N	107°23'57.507"W	0.08	
5907.00	0.060	85.010	5905.58	26.78	-19.30	20.23	39°06'44.381"N	107°23'57.506"W	0.17	



Planned Wellpath Report

FALCON SEABOARD 11-90-12 #5 ST01 (REV-D.0)

Page 3 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	SG INTERESTS	Slot	SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12)
Area	COLORADO	Well	FALCON SEABOARD 11-90-12 #5
Field	GUNNISON COUNTY (GRID NORTH)	Wellbore	FALCON SEABOARD 11-90-12 #5 ST01 PWB
Facility	SEC.12-T11S-R90W	Sidetrack from	FALCON SEABOARD 11-90-12 #5 AWB at 7729.00 MD

WELLPATH DATA (125 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5970.00	0.040	179.100	5968.58	26.81	-19.32	20.27	39°06'44.381"N	107°23'57.506"W	0.12	
6033.00	0.040	235.210	6031.58	26.83	-19.35	20.25	39°06'44.381"N	107°23'57.506"W	0.06	
6096.00	0.030	329.570	6094.58	26.82	-19.35	20.22	39°06'44.381"N	107°23'57.506"W	0.08	
6160.00	0.030	150.880	6158.58	26.82	-19.35	20.22	39°06'44.381"N	107°23'57.506"W	0.09	
6223.00	0.030	39.060	6221.58	26.83	-19.35	20.24	39°06'44.381"N	107°23'57.506"W	0.08	
6286.00	0.040	118.240	6284.58	26.84	-19.35	20.27	39°06'44.381"N	107°23'57.506"W	0.07	
6350.00	0.040	157.040	6348.58	26.88	-19.38	20.30	39°06'44.381"N	107°23'57.505"W	0.04	
6413.00	0.040	44.790	6411.58	26.90	-19.38	20.32	39°06'44.381"N	107°23'57.505"W	0.11	
6476.00	0.030	352.500	6474.58	26.88	-19.35	20.34	39°06'44.381"N	107°23'57.505"W	0.05	
6539.00	0.060	112.820	6537.58	26.89	-19.35	20.36	39°06'44.381"N	107°23'57.505"W	0.13	
6603.00	0.060	117.610	6601.58	26.94	-19.38	20.42	39°06'44.381"N	107°23'57.504"W	0.01	
6666.00	0.060	153.990	6664.58	27.00	-19.42	20.47	39°06'44.380"N	107°23'57.503"W	0.06	
6729.00	0.040	78.270	6727.58	27.04	-19.45	20.50	39°06'44.380"N	107°23'57.503"W	0.10	
6791.00	0.030	28.800	6789.58	27.04	-19.43	20.53	39°06'44.380"N	107°23'57.502"W	0.05	
6854.00	0.040	141.420	6852.58	27.05	-19.43	20.56	39°06'44.380"N	107°23'57.502"W	0.09	
6915.00	0.000	10.680	6913.58	27.07	-19.45	20.57	39°06'44.380"N	107°23'57.502"W	0.07	
6976.00	0.030	146.120	6974.58	27.09	-19.46	20.58	39°06'44.380"N	107°23'57.502"W	0.05	
7038.00	0.030	57.360	7036.58	27.11	-19.47	20.60	39°06'44.380"N	107°23'57.502"W	0.07	
7098.00	0.040	57.680	7096.58	27.10	-19.45	20.63	39°06'44.380"N	107°23'57.501"W	0.02	
7160.00	0.040	102.850	7158.58	27.12	-19.44	20.67	39°06'44.380"N	107°23'57.501"W	0.05	
7223.00	0.030	160.390	7221.58	27.15	-19.46	20.70	39°06'44.380"N	107°23'57.500"W	0.06	
7286.00	0.030	61.040	7284.58	27.17	-19.47	20.72	39°06'44.380"N	107°23'57.500"W	0.07	
7349.00	0.040	168.460	7347.58	27.19	-19.48	20.74	39°06'44.380"N	107°23'57.500"W	0.09	
7413.00	0.030	199.590	7411.58	27.22	-19.52	20.73	39°06'44.379"N	107°23'57.500"W	0.03	
7476.00	0.030	15.880	7474.58	27.22	-19.52	20.73	39°06'44.379"N	107°23'57.500"W	0.10	
7539.00	0.060	25.680	7537.58	27.19	-19.47	20.75	39°06'44.380"N	107°23'57.500"W	0.05	
7602.00	0.000	10.680	7600.58	27.17	-19.44	20.77	39°06'44.380"N	107°23'57.499"W	0.10	
7666.00	0.060	39.160	7664.58	27.16	-19.42	20.79	39°06'44.380"N	107°23'57.499"W	0.09	
7729.00	0.000	157.560	7727.58	27.14	-19.39	20.81	39°06'44.381"N	107°23'57.499"W	0.10	Tie On
7829.00†	8.000	138.000	7827.26	33.95	-24.57	25.47	39°06'44.330"N	107°23'57.438"W	8.00	



Planned Wellpath Report

FALCON SEABOARD 11-90-12 #5 ST01 (REV-D.0)
Page 4 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	SG INTERESTS	Slot	SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12)
Area	COLORADO	Well	FALCON SEABOARD 11-90-12 #5
Field	GUNNISON COUNTY (GRID NORTH)	Wellbore	FALCON SEABOARD 11-90-12 #5 ST01 PWB
Facility	SEC.12-T11S-R90W	Sidetrack from	FALCON SEABOARD 11-90-12 #5 AWB at 7729.00 MD

WELLPATH DATA (125 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7916.50	15.000	138.000	7912.95	50.98	-37.53	37.14	39°06'44.205"N	107°23'57.287"W	8.00	End of Build
7929.00†	15.000	138.000	7925.02	54.14	-39.93	39.30	39°06'44.182"N	107°23'57.259"W	0.00	
8005.10	15.000	138.000	7998.53	73.38	-54.57	52.48	39°06'44.040"N	107°23'57.088"W	0.00	End of Tangent
8029.00†	16.867	139.501	8021.51	79.81	-59.50	56.80	39°06'43.992"N	107°23'57.032"W	8.00	
8129.00†	24.752	143.372	8114.92	114.89	-87.38	78.75	39°06'43.721"N	107°23'56.746"W	8.00	
8229.00†	32.691	145.451	8202.55	162.66	-126.49	106.60	39°06'43.340"N	107°23'56.382"W	8.00	
8329.00†	40.651	146.787	8282.69	222.17	-176.06	139.81	39°06'42.857"N	107°23'55.948"W	8.00	
8425.00†	48.304	147.715	8351.14	289.28	-232.61	176.14	39°06'42.306"N	107°23'55.472"W	8.00	Top of Casing
8429.00†	48.623	147.749	8353.79	292.27	-235.14	177.74	39°06'42.281"N	107°23'55.451"W	8.00	
8529.00†	56.601	148.499	8414.47	371.60	-302.57	219.64	39°06'41.623"N	107°23'54.902"W	8.00	
8629.00†	64.582	149.123	8463.53	458.61	-377.05	264.70	39°06'40.897"N	107°23'54.311"W	8.00	
8729.00†	72.566	149.668	8500.03	551.61	-457.11	312.04	39°06'40.115"N	107°23'53.689"W	8.00	
8829.00†	80.552	150.167	8523.26	648.79	-541.20	360.75	39°06'39.295"N	107°23'53.049"W	8.00	
8929.00†	88.537	150.644	8532.75	748.26	-627.70	409.87	39°06'38.450"N	107°23'52.403"W	8.00	
8984.29	92.953	150.905	8532.04	803.52	-675.93	436.85	39°06'37.979"N	107°23'52.048"W	8.00	End of 3D Arc
9029.00†	92.953	150.905	8529.73	848.18	-714.95	458.56	39°06'37.598"N	107°23'51.762"W	0.00	
9129.00†	92.953	150.905	8524.58	948.04	-802.21	507.13	39°06'36.746"N	107°23'51.123"W	0.00	
9229.00†	92.953	150.905	8519.43	1047.90	-889.48	555.69	39°06'35.893"N	107°23'50.484"W	0.00	
9329.00†	92.953	150.905	8514.28	1147.76	-976.74	604.25	39°06'35.041"N	107°23'49.845"W	0.00	
9429.00†	92.953	150.905	8509.13	1247.63	-1064.01	652.81	39°06'34.189"N	107°23'49.206"W	0.00	
9529.00†	92.953	150.905	8503.98	1347.49	-1151.27	701.37	39°06'33.336"N	107°23'48.567"W	0.00	
9629.00†	92.953	150.905	8498.83	1447.35	-1238.54	749.93	39°06'32.484"N	107°23'47.928"W	0.00	
9729.00†	92.953	150.905	8493.67	1547.21	-1325.81	798.49	39°06'31.632"N	107°23'47.289"W	0.00	
9829.00†	92.953	150.905	8488.52	1647.08	-1413.07	847.06	39°06'30.779"N	107°23'46.650"W	0.00	
9929.00†	92.953	150.905	8483.37	1746.94	-1500.34	895.62	39°06'29.927"N	107°23'46.011"W	0.00	
10029.00†	92.953	150.905	8478.22	1846.80	-1587.60	944.18	39°06'29.075"N	107°23'45.372"W	0.00	
10129.00†	92.953	150.905	8473.07	1946.67	-1674.87	992.74	39°06'28.222"N	107°23'44.733"W	0.00	
10220.00†	92.953	150.905	8468.38	2037.54	-1754.28	1036.93	39°06'27.447"N	107°23'44.151"W	0.00	Bottom of Casing
10229.00†	92.953	150.905	8467.92	2046.53	-1762.13	1041.30	39°06'27.370"N	107°23'44.094"W	0.00	
10329.00†	92.953	150.905	8462.77	2146.39	-1849.40	1089.86	39°06'26.518"N	107°23'43.455"W	0.00	



Planned Wellpath Report

FALCON SEABOARD 11-90-12 #5 ST01 (REV-D.0)

Page 5 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	SG INTERESTS	Slot	SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12)
Area	COLORADO	Well	FALCON SEABOARD 11-90-12 #5
Field	GUNNISON COUNTY (GRID NORTH)	Wellbore	FALCON SEABOARD 11-90-12 #5 ST01 PWB
Facility	SEC.12-T11S-R90W	Sidetrack from	FALCON SEABOARD 11-90-12 #5 AWB at 7729.00 MD

WELLPATH DATA (125 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10429.00†	92.953	150.905	8457.62	2246.25	-1936.66	1138.42	39°06'25.665"N	107°23'42.816"W	0.00	
10529.00†	92.953	150.905	8452.47	2346.12	-2023.93	1186.99	39°06'24.813"N	107°23'42.177"W	0.00	
10629.00†	92.953	150.905	8447.31	2445.98	-2111.19	1235.55	39°06'23.961"N	107°23'41.538"W	0.00	
10729.00†	92.953	150.905	8442.16	2545.84	-2198.46	1284.11	39°06'23.109"N	107°23'40.899"W	0.00	
10829.00†	92.953	150.905	8437.01	2645.71	-2285.73	1332.67	39°06'22.256"N	107°23'40.260"W	0.00	
10929.00†	92.953	150.905	8431.86	2745.57	-2372.99	1381.23	39°06'21.404"N	107°23'39.621"W	0.00	
11029.00†	92.953	150.905	8426.71	2845.43	-2460.26	1429.79	39°06'20.552"N	107°23'38.982"W	0.00	
11129.00†	92.953	150.905	8421.56	2945.29	-2547.52	1478.35	39°06'19.699"N	107°23'38.343"W	0.00	
11229.00†	92.953	150.905	8416.41	3045.16	-2634.79	1526.92	39°06'18.847"N	107°23'37.704"W	0.00	
11329.00†	92.953	150.905	8411.26	3145.02	-2722.05	1575.48	39°06'17.995"N	107°23'37.065"W	0.00	
11429.00†	92.953	150.905	8406.11	3244.88	-2809.32	1624.04	39°06'17.142"N	107°23'36.426"W	0.00	
11529.00†	92.953	150.905	8400.95	3344.75	-2896.58	1672.60	39°06'16.290"N	107°23'35.787"W	0.00	
11629.00†	92.953	150.905	8395.80	3444.61	-2983.85	1721.16	39°06'15.438"N	107°23'35.148"W	0.00	
11729.00†	92.953	150.905	8390.65	3544.47	-3071.11	1769.72	39°06'14.585"N	107°23'34.509"W	0.00	
11829.00†	92.953	150.905	8385.50	3644.33	-3158.38	1818.28	39°06'13.733"N	107°23'33.870"W	0.00	
11929.00†	92.953	150.905	8380.35	3744.20	-3245.64	1866.85	39°06'12.881"N	107°23'33.231"W	0.00	
12029.00†	92.953	150.905	8375.20	3844.06	-3332.91	1915.41	39°06'12.028"N	107°23'32.592"W	0.00	
12129.00†	92.953	150.905	8370.05	3943.92	-3420.18	1963.97	39°06'11.176"N	107°23'31.953"W	0.00	
12229.00†	92.953	150.905	8364.90	4043.79	-3507.44	2012.53	39°06'10.324"N	107°23'31.314"W	0.00	
12329.00†	92.953	150.905	8359.74	4143.65	-3594.71	2061.09	39°06'09.471"N	107°23'30.675"W	0.00	
12429.00†	92.953	150.905	8354.59	4243.51	-3681.97	2109.65	39°06'08.619"N	107°23'30.036"W	0.00	
12529.00†	92.953	150.905	8349.44	4343.37	-3769.24	2158.21	39°06'07.767"N	107°23'29.397"W	0.00	
12629.00†	92.953	150.905	8344.29	4443.24	-3856.50	2206.78	39°06'06.914"N	107°23'28.758"W	0.00	
12729.00†	92.953	150.905	8339.14	4543.10	-3943.77	2255.34	39°06'06.062"N	107°23'28.119"W	0.00	
12829.00†	92.953	150.905	8333.99	4642.96	-4031.03	2303.90	39°06'05.210"N	107°23'27.481"W	0.00	
12929.00†	92.953	150.905	8328.84	4742.82	-4118.30	2352.46	39°06'04.357"N	107°23'26.842"W	0.00	
13029.00†	92.953	150.905	8323.69	4842.69	-4205.56	2401.02	39°06'03.505"N	107°23'26.203"W	0.00	
13129.00†	92.953	150.905	8318.54	4942.55	-4292.83	2449.58	39°06'02.653"N	107°23'25.564"W	0.00	
13229.00†	92.953	150.905	8313.38	5042.41	-4380.10	2498.14	39°06'01.800"N	107°23'24.925"W	0.00	
13329.00†	92.953	150.905	8308.23	5142.28	-4467.36	2546.71	39°06'00.948"N	107°23'24.286"W	0.00	



Planned Wellpath Report

FALCON SEABOARD 11-90-12 #5 ST01 (REV-D.0)

Page 6 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	SG INTERESTS	Slot	SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12)
Area	COLORADO	Well	FALCON SEABOARD 11-90-12 #5
Field	GUNNISON COUNTY (GRID NORTH)	Wellbore	FALCON SEABOARD 11-90-12 #5 ST01 PWB
Facility	SEC.12-T11S-R90W	Sidetrack from	FALCON SEABOARD 11-90-12 #5 AWB at 7729.00 MD

WELLPATH DATA (125 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13429.00†	92.953	150.905	8303.08	5242.14	-4554.63	2595.27	39°06'00.095"N	107°23'23.647"W	0.00	
13529.00†	92.953	150.905	8297.93	5342.00	-4641.89	2643.83	39°05'59.243"N	107°23'23.008"W	0.00	
13629.00†	92.953	150.905	8292.78	5441.86	-4729.16	2692.39	39°05'58.391"N	107°23'22.369"W	0.00	
13729.00†	92.953	150.905	8287.63	5541.73	-4816.42	2740.95	39°05'57.538"N	107°23'21.731"W	0.00	
13818.86	92.953	150.905	8283.00 ¹	5631.47	-4894.84	2784.59	39°05'56.773"N	107°23'21.156"W	0.00	End of Tangent

HOLE & CASING SECTIONS -

Ref Wellbore: FALCON SEABOARD 11-90-12 #5 ST01 PWB

Ref Wellpath: FALCON SEABOARD 11-90-12 #5 ST01 (REV-D.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]
13.375in Casing Surface	18.00	555.00	537.00	18.00	554.98	0.00	0.00	3.71	-0.27
9.625in Casing Intermediate	18.00	5500.00	5482.00	18.00	5498.59	0.00	0.00	-18.37	19.48
5.5in Casing Production	18.00	13818.86	13800.86	18.00	8283.00	0.00	0.00	-4894.84	2784.59

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
FALCON SEABOARD 11-90-12 #5 SECTION 12		0.00	0.00	0.00	2461112.06	1471457.64	39°06'44.568"N	107°23'57.768"W	polygon
FALCON SEABOARD 11-90-12 #5 SECTION 13		0.00	0.00	0.00	2461112.06	1471457.64	39°06'44.568"N	107°23'57.768"W	polygon
FALCON SEABOARD 11-90-12 #5 BHL REV-3 (1700'FSL & 395'FEL SEC 13)		8283.00	-5443.87	3046.90	2464158.76	1466014.13	39°05'51.401"N	107°23'17.685"W	point
1) FALCON SEABOARD 11-90-12 #5 BHL Target from plan (2245'FSL & 669'FEL SEC 13)	13818.86	8283.00	-4894.84	2784.59	2463896.46	1466563.12	39°05'56.773"N	107°23'21.156"W	point



Planned Wellpath Report

FALCON SEABOARD 11-90-12 #5 ST01 (REV-D.0)

Page 7 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	SG INTERESTS	Slot	SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12)
Area	COLORADO	Well	FALCON SEABOARD 11-90-12 #5
Field	GUNNISON COUNTY (GRID NORTH)	Wellbore	FALCON SEABOARD 11-90-12 #5 ST01 PWB
Facility	SEC.12-T11S-R90W	Sidetrack from	FALCON SEABOARD 11-90-12 #5 AWB at 7729.00 MD

SURVEY PROGRAM -

Ref Wellbore: FALCON SEABOARD 11-90-12 #5 ST01 PWB Ref Wellpath: FALCON SEABOARD 11-90-12 #5 ST01 (REV-D.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	5448.00	ISCWSA MWD, Rev. 3 (Standard)		FALCON SEABOARD 11-90-12 #5 AWB
5448.00	7729.00	NaviTrak (Standard)		FALCON SEABOARD 11-90-12 #5 AWB
7729.00	15000.00	Custom NaviTrak (Standard) (AT Curve sf 0.01) (Rockies 0.03Gt model)		FALCON SEABOARD 11-90-12 #5 ST01 PWB



Planned Wellpath Report

FALCON SEABOARD 11-90-12 #5 ST01 (REV-D.0)
Page 8 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	SG INTERESTS	Slot	SLOT#05 FALCON SEABOARD 11-90-12 #5 (1837'FSL & 1846'FWL SEC 12)
Area	COLORADO	Well	FALCON SEABOARD 11-90-12 #5
Field	GUNNISON COUNTY (GRID NORTH)	Wellbore	FALCON SEABOARD 11-90-12 #5 ST01 PWB
Facility	SEC.12-T11S-R90W	Sidetrack from	FALCON SEABOARD 11-90-12 #5 AWB at 7729.00 MD

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8425.00	48.304	147.715	8351.14	Top of Casing
10220.00	92.953	150.905	8468.38	Bottom of Casing

DESIGN COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7729.00	0.000	157.560	7727.58	Tie On
7916.50	15.000	138.000	7912.95	End of Build
8005.10	15.000	138.000	7998.53	End of Tangent
8984.29	92.953	150.905	8532.04	End of 3D Arc
13818.86	92.953	150.905	8283.00	End of Tangent