

Location:	COLORADO	Slot:	SLOT#11 WIND 11 (1548FSL & 240'FWL, SEC.31)
Field:	WELD COUNTY (NAD83/TRUE NORTH)	Well:	WIND 11
Facility:	SEC.31-T05N-R67W	Wellbore:	WIND 11 PWB

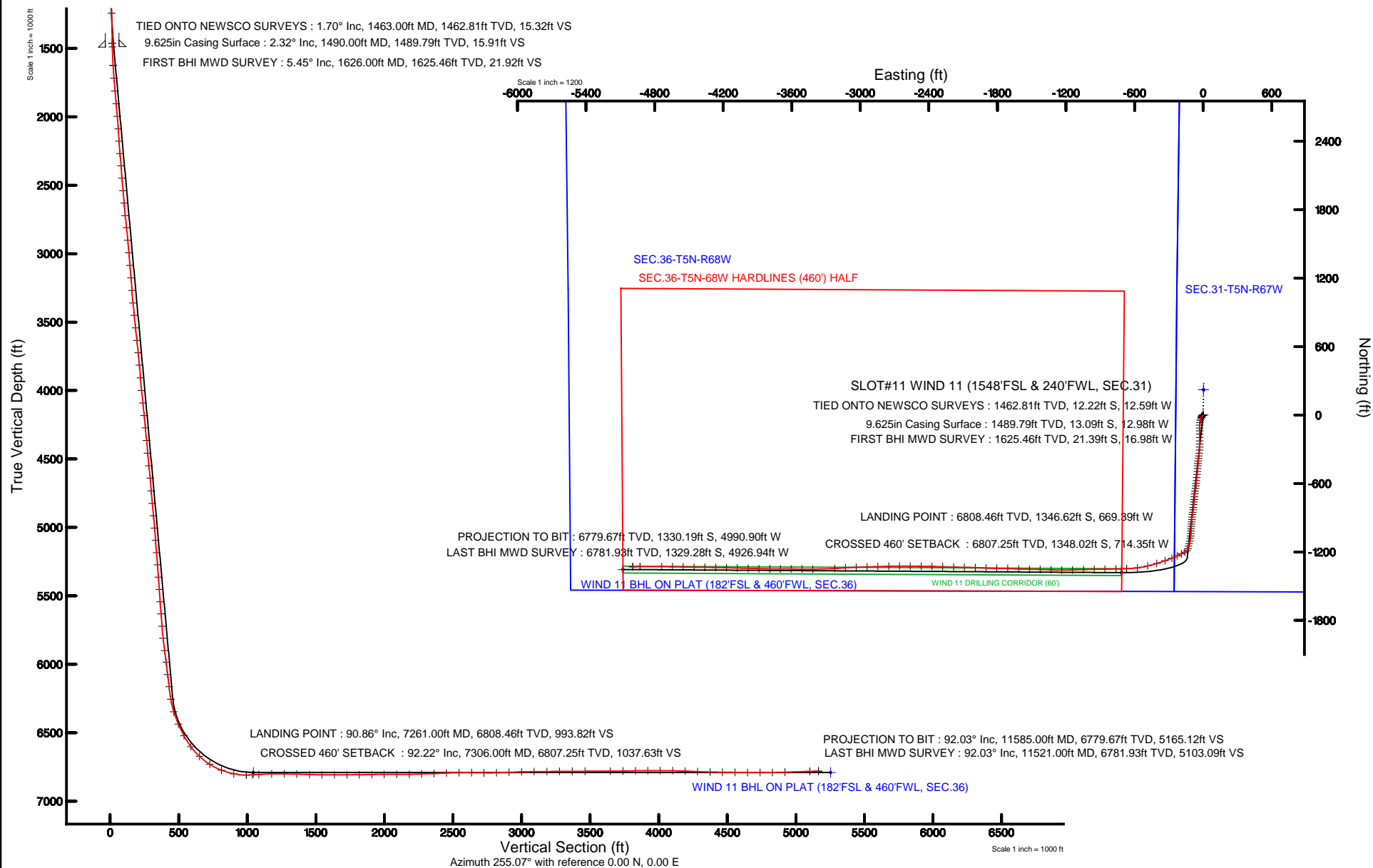
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True vertical depths are referenced to SAVANNA 802 (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to SAVANNA 802 (RKB)	North Reference: True north
SAVANNA 802 (RKB) to Mean Sea Level: 4944 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#11 WIND 11 (1548'FSL & 240'FWL, SEC.31)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: inqamjmr on 7/17/2015



BGM (1945.0 to 2017.0) Dip: 66.89° Field: 52568.8 nT  
Magnetic North is 8.66 degrees East of True North (at 6/29/2015)

To correct azimuth from Magnetic to True add 8.66 degrees





# Actual Wellpath Report

WIND 11 AWP

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## REFERENCE WELLPATH IDENTIFICATION

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## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.1.1
North Reference	True	User	Ingmjmr
Scale	0.999958	Report Generated	7/17/2015 at 3:25:15 PM
Convergence at slot	0.36° East	Database/Source file	Denver/WIND_11_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-46883.41	-31061.39	3154774.43	1372052.91	40°21'12.082"N	104°56'40.762"W
Facility Reference Pt			3185481.27	1419166.81	40°28'55.560"N	104°49'59.556"W
Field Reference Pt			3185481.27	1419166.81	40°28'55.560"N	104°49'59.556"W

## WELLPATH DATUM

Calculation method	Minimum curvature	SAVANNA 802 (RKB) to Facility Vertical Datum	4944.00ft
Horizontal Reference Pt	Slot	SAVANNA 802 (RKB) to Mean Sea Level	4944.00ft
Vertical Reference Pt	SAVANNA 802 (RKB)	SAVANNA 802 (RKB) to Mud Line at Slot (SLOT#11 WIND 11 (1548'FSL & 240'FWL, SEC.31))	4944.00ft
MD Reference Pt	SAVANNA 802 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	255.08°



# Actual Wellpath Report

WIND 11 AWP

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Facility	SEC.31-T05N-R67W		

## WELLPATH DATA (107 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
1463.00	1.700	203.400	1462.81	15.32	-12.22	-12.59	0.61	TIED ONTO NEWSOCO SURVEYS
1626.00	5.450	206.270	1625.46	21.92	-21.39	-16.98	2.30	FIRST BHI MWD SURVEY
1720.00	8.050	196.010	1718.81	28.24	-31.72	-20.77	3.04	
1814.00	10.670	191.720	1811.55	35.53	-46.57	-24.36	2.88	
1909.00	12.950	190.520	1904.53	44.05	-65.65	-28.09	2.41	
2004.00	14.920	181.590	1996.74	52.10	-88.34	-30.37	3.06	
2099.00	16.270	179.640	2088.24	58.92	-113.88	-30.63	1.52	
2193.00	14.840	178.280	2178.80	64.98	-139.08	-30.18	1.57	
2287.00	18.110	180.490	2268.93	71.62	-165.73	-29.95	3.54	
2382.00	18.510	179.750	2359.12	79.36	-195.57	-30.01	0.49	
2477.00	18.450	179.460	2449.22	86.91	-225.68	-29.80	0.12	
2572.00	16.680	180.530	2539.79	94.28	-254.35	-29.78	1.89	
2666.00	14.870	181.570	2630.24	101.30	-279.90	-30.24	1.95	
2761.00	17.720	186.140	2721.42	109.96	-306.47	-32.12	3.29	
2855.00	16.340	185.700	2811.30	119.76	-333.85	-34.96	1.47	
2950.00	14.170	186.330	2902.94	128.68	-358.70	-37.57	2.29	
3044.00	12.420	187.450	2994.42	136.70	-380.17	-40.15	1.88	
3138.00	14.570	187.560	3085.82	145.07	-401.91	-43.02	2.29	
3232.00	12.310	184.040	3177.24	152.85	-423.63	-45.28	2.56	
3326.00	14.060	180.780	3268.76	159.20	-445.05	-46.14	2.02	
3421.00	15.520	186.530	3360.62	166.97	-469.21	-47.74	2.18	
3515.00	16.000	185.660	3451.08	176.13	-494.60	-50.45	0.57	
3610.00	16.370	185.890	3542.32	185.49	-520.95	-53.12	0.40	
3705.00	16.440	186.130	3633.45	195.07	-547.63	-55.93	0.10	
3799.00	16.240	185.980	3723.65	204.54	-573.93	-58.72	0.22	
3893.00	14.400	185.570	3814.31	213.32	-598.64	-61.22	1.96	
3988.00	11.980	184.770	3906.80	220.78	-620.22	-63.19	2.55	
4083.00	15.440	189.780	3999.08	229.39	-642.52	-66.16	3.85	
4178.00	14.020	188.160	4090.96	239.19	-666.37	-69.94	1.56	
4273.00	16.740	185.200	4182.55	248.41	-691.39	-72.81	2.98	



# Actual Wellpath Report

WIND 11 AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#11 WIND 11 (1548'FSL & 240'FWL, SEC.31)
Area	COLORADO	Well	WIND 11
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WIND 11 AWB
Facility	SEC.31-T05N-R67W		

## WELLPATH DATA (107 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4367.00	15.200	185.000	4272.92	257.27	-717.15	-75.11	1.64	
4462.00	14.090	185.470	4364.83	265.54	-741.07	-77.30	1.18	
4557.00	12.280	187.550	4457.32	273.44	-762.60	-79.73	1.97	
4652.00	15.940	187.790	4549.44	282.34	-785.54	-82.83	3.85	
4746.00	14.390	187.560	4640.16	291.79	-809.91	-86.11	1.65	
4841.00	11.950	185.840	4732.66	299.79	-831.40	-88.67	2.60	
4936.00	13.780	188.780	4825.27	307.83	-852.37	-91.40	2.05	
5028.00	12.230	188.320	4914.91	316.08	-872.84	-94.48	1.69	
5120.00	14.920	185.210	5004.33	324.00	-894.28	-96.96	3.03	
5212.00	12.710	183.800	5093.66	331.33	-916.18	-98.71	2.43	
5305.00	13.710	184.860	5184.20	338.34	-937.37	-100.32	1.11	
5397.00	11.520	185.400	5273.97	345.22	-957.38	-102.11	2.38	
5488.00	13.810	185.430	5362.75	352.16	-977.24	-103.99	2.52	
5580.00	11.350	183.060	5452.54	358.77	-997.22	-105.52	2.73	
5672.00	12.990	182.060	5542.47	364.59	-1016.59	-106.37	1.80	
5764.00	15.060	184.290	5631.72	371.54	-1038.85	-107.64	2.33	
5856.00	12.240	182.850	5721.11	378.46	-1060.51	-109.02	3.09	
5947.00	13.390	191.520	5809.86	386.09	-1080.47	-111.60	2.46	
6040.00	16.630	193.370	5899.67	397.20	-1103.98	-116.83	3.52	
6129.00	14.310	192.610	5985.44	408.32	-1127.10	-122.18	2.62	
6221.00	15.060	195.170	6074.44	419.57	-1149.73	-127.79	1.08	
6312.00	12.340	192.820	6162.84	430.03	-1170.63	-133.04	3.05	
6407.00	11.640	215.510	6255.82	442.15	-1188.34	-140.86	4.98	
6502.00	18.380	245.620	6347.66	464.37	-1202.36	-160.12	10.63	
6597.00	23.150	243.430	6436.46	497.45	-1216.90	-190.48	5.09	
6692.00	28.400	245.010	6521.98	538.02	-1234.81	-227.69	5.57	
6787.00	36.810	247.980	6601.94	588.60	-1255.07	-274.64	9.01	
6882.00	46.780	250.310	6672.68	651.50	-1277.46	-333.77	10.62	
6977.00	57.610	252.640	6730.83	726.29	-1301.16	-404.86	11.56	
7072.00	69.170	256.450	6773.33	811.06	-1323.61	-486.60	12.68	



# Actual Wellpath Report

WIND 11 AWP

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Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WIND 11 AWB
Facility	SEC.31-T05N-R67W		

## WELLPATH DATA (107 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
7167.00	78.510	263.180	6799.76	901.83	-1339.59	-576.27	11.95	
7261.00	90.860	268.140	6808.46	993.61	-1346.62	-669.39	14.15	LANDING POINT
7306.00†	92.220	268.298	6807.25	1037.42	-1348.02	-714.35	3.04	CROSSED 460' SETBACK
7355.00	93.700	268.470	6804.72	1085.04	-1349.40	-763.27	3.04	
7450.00	90.920	269.520	6800.89	1177.16	-1351.06	-858.17	3.13	
7545.00	89.160	268.890	6800.83	1269.29	-1352.38	-953.15	1.97	
7639.00	88.790	268.420	6802.51	1360.64	-1354.59	-1047.11	0.64	
7734.00	88.240	267.840	6804.97	1453.16	-1357.69	-1142.03	0.84	
7828.00	88.830	270.690	6807.37	1544.25	-1358.89	-1235.98	3.10	
7923.00	90.920	271.910	6807.58	1635.46	-1356.74	-1330.95	2.55	
8018.00	90.400	271.310	6806.49	1726.52	-1354.07	-1425.90	0.84	
8112.00	89.780	270.930	6806.34	1816.86	-1352.23	-1519.88	0.77	
8207.00	91.480	272.190	6805.29	1907.95	-1349.64	-1614.84	2.23	
8302.00	90.730	272.050	6803.46	1998.76	-1346.13	-1709.75	0.80	
8397.00	88.980	270.490	6803.70	2089.98	-1344.02	-1804.72	2.47	
8492.00	91.040	272.700	6803.69	2181.05	-1341.38	-1899.68	3.18	
8586.00	91.870	272.160	6801.30	2270.74	-1337.40	-1993.56	1.05	
8681.00	91.940	271.060	6798.14	2361.76	-1334.73	-2088.47	1.16	
8776.00	92.610	271.110	6794.37	2453.00	-1332.93	-2183.38	0.71	
8871.00	90.730	272.260	6791.60	2544.00	-1330.14	-2278.29	2.32	
8966.00	89.440	271.180	6791.46	2635.01	-1327.29	-2373.24	1.77	
9060.00	88.860	270.400	6792.85	2725.49	-1325.99	-2467.22	1.03	
9155.00	91.780	270.440	6792.32	2817.09	-1325.30	-2562.21	3.07	
9250.00	92.150	270.090	6789.07	2908.72	-1324.86	-2657.15	0.54	
9344.00	91.780	268.380	6785.84	2999.81	-1326.11	-2751.08	1.86	
9439.00	90.180	268.500	6784.22	3092.22	-1328.70	-2846.03	1.69	
9534.00	90.800	268.170	6783.41	3184.68	-1331.46	-2940.99	0.74	
9629.00	90.890	267.890	6782.01	3277.25	-1334.72	-3035.92	0.31	
9723.00	89.780	266.380	6781.46	3369.17	-1339.42	-3129.80	1.99	
9818.00	90.340	266.790	6781.36	3462.26	-1345.08	-3224.63	0.73	



# Actual Wellpath Report

WIND 11 AWP

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Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WIND 11 AWB
Facility	SEC.31-T05N-R67W		

## WELLPATH DATA (107 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
10008.00	90.120	270.100	6780.59	3647.09	-1350.23	-3414.53	1.75	
10103.00	91.020	270.050	6779.65	3738.84	-1350.11	-3509.52	0.95	
10198.00	91.390	270.540	6777.65	3830.49	-1349.62	-3604.50	0.65	
10292.00	89.660	270.450	6776.79	3921.10	-1348.81	-3698.49	1.84	
10385.00	90.430	270.590	6776.72	4010.74	-1347.96	-3791.49	0.84	
10480.00	88.770	271.470	6777.38	4102.08	-1346.26	-3886.46	1.98	
10575.00	88.090	271.470	6779.98	4193.18	-1343.82	-3981.40	0.72	
10670.00	87.530	271.580	6783.61	4284.23	-1341.29	-4076.29	0.60	
10764.00	88.550	271.380	6786.83	4374.35	-1338.87	-4170.21	1.11	
10858.00	89.380	271.220	6788.53	4464.59	-1336.74	-4264.17	0.90	
10953.00	89.110	270.000	6789.78	4556.11	-1335.72	-4359.15	1.32	
11048.00	89.660	271.510	6790.80	4647.56	-1334.47	-4454.13	1.69	
11143.00	90.250	271.510	6790.87	4738.68	-1331.97	-4549.10	0.62	
11237.00	90.680	270.710	6790.11	4829.02	-1330.15	-4643.08	0.97	
11332.00	91.720	270.660	6788.12	4920.50	-1329.01	-4738.05	1.10	
11521.00	92.030	269.180	6781.93	5103.09	-1329.28	-4926.94	0.80	LAST BHI MWD SURVEY
11585.00	92.030	269.180	6779.67	5165.12	-1330.19	-4990.90	0.00	PROJECTION TO BIT

## HOLE & CASING SECTIONS - Ref Wellbore: WIND 11 AWB Ref Wellpath: WIND 11 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	15.00	1490.00	1475.00	15.00	1489.79	0.00	0.00	-13.09	-12.98
7.875in Open Hole	15.00	11585.00	11570.00	15.00	6779.67	0.00	0.00	-1330.19	-4990.90



# Actual Wellpath Report

WIND 11 AWP

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Facility	SEC.31-T05N-R67W		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.31-T5N-R67W	4.00	221.82	3.10	3154776.14	1372274.74	40°21'14.274"N	104°56'40.722"W	polygon
SEC.36-T5N-R68W	4.00	221.82	3.10	3154776.14	1372274.74	40°21'14.274"N	104°56'40.722"W	polygon
WIND 11 BHL ON PLAT (182'FSL & 460'FWL, SEC.36)	6790.00	-1354.00	-5076.44	3149706.79	1370667.20	40°20'58.697"N	104°57'46.328"W	point
WIND 11 LANDING POINT	6790.00	-1381.53	-712.70	3154070.43	1370667.00	40°20'58.430"N	104°56'49.967"W	point
WIND 11 DRILLING CORRIDOR (60')	6800.00	0.00	0.00	3154774.43	1372052.91	40°21'12.082"N	104°56'40.762"W	polygon
SEC.36-T5N-68W HARDLINES (460') HALF	7109.00	221.82	3.10	3154776.14	1372274.74	40°21'14.274"N	104°56'40.722"W	polygon

## WELLPATH COMPOSITION - Ref Wellbore: WIND 11 AWB Ref Wellpath: WIND 11 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	1463.00	ISCWSA MWD, Rev. 3 (Standard)	NEWSO SURVEYS <143-1463>	WIND 11 AWB
1463.00	11521.00	NaviTrak (Standard)	BHI MWD/ NAVITRAK (STD) 7 7/8" HOLE <1626-11521>	WIND 11 AWB
11521.00	11585.00	Blind Drilling (std)	Projection to bit	WIND 11 AWB



# Actual Wellpath Report

WIND 11 AWP

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## WELLPATH COMMENTS

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1626.00	5.450	206.270	1625.46	FIRST BHI MWD SURVEY
7261.00	90.860	268.140	6808.46	LANDING POINT
7306.00	92.220	268.298	6807.25	CROSSED 460' SETBACK
11521.00	92.030	269.180	6781.93	LAST BHI MWD SURVEY
11585.00	92.030	269.180	6779.67	PROJECTION TO BIT