

Planned Wellpath Report

Armonia 1 Dir (PWP B.2 DB 02-07-14)

Page 1 of 3

REFERENCE WELLPATH IDENTIFICATION

Operator	Aleanna Resources LLC	Slot	Slot 1
Area	Italy	Well	Armonia 1 Dir
Field	Cotignola	Wellbore	Armonia 1 Dir (PWB)
Facility	Armonia 1		

REPORT SETUP INFORMATION

Projection System	WGS84 / UTM Zone 32 North	Software System	WellArchitect® 4.0.0
North Reference	True	User	Biandan
Scale	1.00024	Report Generated	03-Jul-14 at 09:14:56
Convergence at slot	n/a	Database/Source file	WellArchitect Pescara Server/Armonia_1_Dir_PWB_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[m]	East[m]	Easting[m]	Northing[m]	Latitude	Longitude
Slot Location	0.00	0.00	728560.62	4915439.26	44°21'22.382"N	11°52'04.763"E
Facility Reference Pt			728560.62	4915439.26	44°21'22.382"N	11°52'04.763"E
Field Reference Pt			729072.00	4915827.00	44°21'34.352"N	11°52'28.449"E

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on Slot 1 (RT) to Facility Vertical Datum	0.00m
Horizontal Reference Pt	Slot	Rig on Slot 1 (RT) to Mean Sea Level	26.00m
Vertical Reference Pt	Rig on Slot 1 (RT)	Rig on Slot 1 (RT) to Mud Line at Slot (Slot 1)	0.00m
MD Reference Pt	Rig on Slot 1 (RT)	Section Origin	N 0.00, E 0.00 m
Field Vertical Reference	Mean Sea Level	Section Azimuth	77.95°

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Page 2 of 3

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WELLPATH DATA (6 stations)

MD [m]	Inclination [°]	Azimuth [°]	TVD [m]	TVD from Fld Vert Ref [m]	Vert Sect [m]	North [m]	East [m]	Grid East [m]	Grid North [m]	Latitude	Longitude	DLS [°/30m]	Toolface [°]	Comments
0.00	0.000	77.948	0.00	-26.00	0.00	0.00	0.00	728560.62	4915439.26	44°21'22.382"N	11°52'04.763"E	0.00	0.00	Tie On
526.00	0.000	77.948	526.00	500.00	0.00	0.00	0.00	728560.62	4915439.26	44°21'22.382"N	11°52'04.763"E	0.00	77.95	End of Tangent
841.95	21.063	77.948	834.88	808.88	57.42	11.99	56.16	728616.34	4915453.21	44°21'22.770"N	11°52'07.299"E	2.00	0.00	End of Build
1573.04	21.063	77.948	1517.12	1491.12	320.18	66.85	313.12	728871.28	4915517.05	44°21'24.547"N	11°52'18.902"E	0.00	180.00	End of Tangent
1888.99	0.000	77.948	1826.00	1800.00	377.60	78.84	369.28	728927.00	4915531.00	44°21'24.936"N	11°52'21.438"E	2.00	0.00	End of Drop
2438.99	0.000	77.948	2376.00 ¹	2350.00	377.60	78.84	369.28	728927.00	4915531.00	44°21'24.936"N	11°52'21.438"E	0.00		End of Tangent

HOLE & CASING SECTIONS - Ref Wellbore: Armonia 1 Dir (PWB) Ref Wellpath: Armonia 1 Dir (PWP B.2 DB 02-07-14)

String/Diameter	Start MD [m]	End MD [m]	Interval [m]	Start TVD [m]	End TVD [m]	Start N/S [m]	Start E/W [m]	End N/S [m]	End E/W [m]
13.375in Conductor	0.00	50.00	50.00	0.00	50.00	0.00	0.00	0.00	0.00
12.25in Open Hole	50.00	526.00	476.00	50.00	526.00	0.00	0.00	0.00	0.00
9.625in Casing	0.00	526.00	526.00	0.00	526.00	0.00	0.00	0.00	0.00
8.5in Open Hole	526.00	2438.99	1912.99	526.00	2376.00	0.00	0.00	78.84	369.28
7in Casing	0.00	2438.99	2438.99	0.00	2376.00	0.00	0.00	78.84	369.28

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Page 3 of 3

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TARGETS

Name	MD [m]	TVD [m]	North [m]	East [m]	Grid East [m]	Grid North [m]	Latitude	Longitude	Shape
1) Target BH	2438.99	2376.00	78.84	369.28	728927.00	4915531.00	44°21'24.936"N	11°52'21.438"E	point