

Work Program - Original Ales Application

Targets of the exploration program are:

1. Priority: Lias - Dogger "Toarcian" Shales
2. Priority :a).Stephanian Shales; b). Autunian Shales

Year 1	<i>Preparation of data and input into Kingdom (SMT/Arc-GIS)</i>	Total cost	€ 50 000
	<i>Evaluation of Shale Gas</i>		
		Log Analysis	€ 90 000
		Analysis of cuttings and cores (200 samples)	€ 50 000
		Analysis of outcrop samples (100 samples)	€ 25 000
	<i>Fieldwork</i>		€ 80 000
	<i>Reprocessing of seismic data</i>		
		350 km of pre-1970 data at EUR 400/Km by BRGM	€ 140 000
		450 km of post-1970 data at EUR 360/km by BRGM	€ 162 000
	<i>Acquisition of regional lines prepared by the BRGM</i>		
		Acquisition of line SE-02/05/09	€ 16 000
	<i>Interpretation of reprocessed seismic</i>		€ 90 000
	<i>Acquisition of new 2D seismic lines</i>		
		30 kms (including mob/demob)	€ 1 000 000
	<i>Regional Studies of Toarcian, Permian and Autunian Shales</i>		€ 60 000
	<i>Permitting, Wellsite planing</i>		€ 100 000
	Total Year 1		€ 1 863 000
Year 2	Drill Pilot Well No.1 A (for horizontal well), near Villeneuve de Berg, T.D. 2000m includes coring/completions/fracturation/test for product quality and volumes		€ 5 000 000
	Drill Pilot Well No.2 A (for horizontal well), near Valvignerres, T. D. 3200m or Stephanian test includes coring/completions/fracturation/test for product quality and volumes		€ 6 000 000
	Drill 2 core holes in Nant area		€ 55 000
	Total Year 2		€ 11 055 000
Year 3	Drill horizontal well No.1 B from location of Pilot Well No.1A, contingent of successful test of Well No1A includes multistage fracturation and completions		€ 12 500 000
	Drill horizontal well No.2 B from location of Pilot Well No.2A, contingent of successful test of Well No.2A includes multistage fracturation and completions		€ 15 000 000
	Drill Pilot Well No.3 A (for horizontal well) ,Includes coring/completions/fracturation/test for product quality and volumes to test Toarcian shales near Bouquet well, or north of Montpellier or Stephanian shales		€ 5 000 000
	Acquisition of new seismic		
		35 km (incl.mob and demob)	€ 1 150 000
	Total Year 3		€ 33 650 000
Year 4	Drill horizontal well No.3 B from location of Pilot Well No.3A, contingent of successful test of Well No3A includes multistage fracturation and completions		€ 12 500 000
	Drill vert. well No. 4 A either Toarcian shales or Autunian shales in Nant area, (incl. pump test)		€ 850 000

Total Year 4

€ 13 350 000

TOTAL YEARS 1 - 4

€ 59 918 000
