02/08

TECHNICAL SPECIFICATIONS SHEET OF

POTASSIUM LIGNITE (KL)

Potassium Lignite is used in Potassium base inhibitive mud system primarily as filtration control agent (both at API and HPHT stipulated conditions) and secondary to control mud rheology. It is also used in fresh water, brackish, sea and salt water mud systems for the same purposes.

Each bidder should fill-in the tables given below with the properties of their quoted product. Only to write "**conforming to"** or "**OK**" will not be sufficient.

A-1) TECHNICAL SPECIFICATIONS:

SR. NO.	PROPERTIES	REQUIRED SPECIFICATIONS	EXACT VALUE OF THE OFFERED PRODUCT
01.	Physical appearance	Free flowing Powder	
02.	pH of 2% Solution	9.0 Minimum	
03.	Moisture Content	10 % Maximum	
05.	Potassium Content % by mass	5 % Minimum	
06.	Particle size	90% minimum should pass through 30 mesh.	

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A-2) ***PERFORMANCE TESTS:***

SR. NO.	PERFORMANCE TESTS	REQUIRED SPECIFICATIONS	EXACT VALUE OF THE OFFERED PRODUCT
01.	**Preparation of base mud:** Prepare 1000ml bentonite suspension containing 10.0 grams API bentonite per 100ml distilled water by stirring with laboratory stirrer (3000-4000 rpm) for 15 minutes. Age for 48hrs at 90±2°C temp. After aging, cool down to 24±2°C. Dilute it with distilled water if required to bring its apparent viscosity to 50±2cp after raising pH 9.0-10 with 5N KOH solution and also record its YP and API F/L. Divide this suspension into two portions.		
02.	Take one part (500ml) of base mud as mentioned at (01) and treat with 7.5 gm of potassium lignite sample with stirring. Stir for 15minutes with Hamilton beach mixer at high speed.. Adjust the pH of this mud to 9.0-10 and record the following parameters;		
	a) Apparent viscosity, (cp)	Should not exceed more than 50% of the value obtained for base mud at (01).	
	b) YP (lbs/100sq.ft)	Should not exceed more than 30% of the value obtained for base mud at (01).	

re-tested please
Fazal...
05/10/2018

FAZAL RAHIM
Chief Engr. (Drilling Fluid)
Ext: 2373

03.	Take 2nd part (500ml) of above base mud as mentioned at (01) and add 7.5 gm of potassium lignite sample with stirring. Stir for 15minutes with Hamilton beach mixer at high speed. Adjust the pH of this mud to 9.0-10. Hot roll at 160±2°C for 24hrs, cool down to 24±2°C and record the following parameters;		
	a) Apparent viscosity, (cp)	Should not exceed more than 50%of the value obtained for base mud at (01)	
	b) YP (lbs/100sq.ft)	Should not exceed more than 30% of the value obtained for base mud at (01).	