



SPECIFICATION OF RIGS AND SUPPORTING EQUIPMENT

Rig Vermeer D50x88 VBM Navigator

DRILLING UNIT

Name of drilling unit (Rig)	19-Vermeer D50x88 VBM Navigator
Drilling unit type	HDD Rig (track mounted)
Year/Serial No.	2008 / *PE4045H718127*
Owner	PT BINTANGMANDIRI PERKASA DRILL
Rig manufacturer	VERMEER BEIJING MANUFACTURING, LTD.
Current rig location	PTBMP Sengata



SECTION A: MAJOR DIMENSIONS

A1. Dimensions of rig while standby (H x W x L in M's)	2.3 x 2.5 x 7.0
A2. Dimensions of rig while operating (H x W x L in M's)	2.3 x 2.5 x 7.0
A3. Minimum rig site required (W x L in M's)	15 x 25
A4. Total weight (Kg)	10,000

SECTION B: POWER EQUIPMENT

B1. Rig engine	
- Manufacturer	JOHN DEERE
- Type	4045HF 475
- Output (HP) & Rated (RPM)	173 & 2,400
B2. Planned Maintenance System	Periodically (Daily – 100 – 250 – 500 – 1000 - 2000Hrs)

SECTION C: TECHNICAL REQUIREMENT

C1. Pull back capacity (Kg)	22,700
C2. Thrust capacity (Kg)	22,700
C3. Depth capacity (M)	600
C4. Spindle torque @ 208 RPM (Nm)	11,931
C5. Maximum spindle speed (RPM)	208
C6. Maximum ground drive speed (KPH)	2.5
C7. Drill rack angle (degree)	16 - 30
C8. Minimum bore diameter (Inch)	3.5
C9. Maximum moving gradient (degree)	20
C10. Current production performance (average)	Open hole 500M/day (MRD); 350M/day (DHH + construct.)
C11. Mud pump:	
- Model	FMC L1622
- Capacity	113.6 Gpm / 1,100 PSI
C12. Drill pipe:	
- Length (M)	4.6
- Pipe diameter (Inch)	2-7/8
- Weight (Kg)	90.7
- Rod carrying capacity (M)	109.7

SECTION D: SUPPORTING EQUIPMENT

D1. Cementing pump and tank:	
- Pump model	SC45
- Maximum pump rate & pressure rating	47.5 Lpm / 35 Kg/cm ²