

SPEKIFIKASI PERALATAN RIG & TOP DRIVE

SPECIFICACIONES DE EQUIPAMIENTO PARA PLATAFORMA Y "TOP DRIVE"					
SPESIFIKASI PERALATAN RIG & TOP DRIVE					
	URAIAN PERALATAN DAN SPESIFIKASI YANG DIINGINKAN	CANTIDAD	INFORMACION	PRECIO	REMARKS
		JUMLAH	KETERANGAN	HARGA	
	A. Hoisting system				
1	Drawworks				
	Capacity: power 650 HP, nomination depth 2500 m	1 unit			
	with 5" and 3,5 "DP,				
	Double drum: Ø1168mmX260mm+ Ø970mmX210mm with:				
	1 1/8" Drilling line size				
	9/16" Sand Line size, Cap. 3000 m.				
	46" x 10" Brake Range size				
	20 " / 49 3/4" Housing drum size				
	2" Four Strand Transmission Chain				
	2 1/2" tripple strand drum drive chain				
	fast line maximun pull:280KN and 110KN @main drum and sand drum;				
	Electronic crown protector system				
	Drillers Console				
	independent fresh water cooling system untuk drawworks & auxiliary brake.				
	Auxiliary brake Disc break;				
	Hydraulic Make up & break out;				
	Crown -O- matic sevice;				
2	Cat heads				
	Incorporated into the drawworks with controls at driller console with rated single line, pull capacity	1 unit			
	6000 lbs for make-up and 8000 lbs for break up.				
3	Derick / Mast				
	Max.static hook load:200 ton;	1 unit			
	Floor height above ground level 6m.				
	Clearance height under rotary beams 4.95m				
	Rated hook load:180ton;				
	Hydraulic winch @ Drilling floor				
	Adjustable casing stabbing board;				
	Sheave for cable sand line 9/16";				
	Crown block 6 sheaves, groove 1 1/8", cap. 200 ton;				
	Racking platform cap.2500 m for stds DP-5",150m for 8 stds DC;				
	stand alone type:2 jts;				
	Available making connection with Pipe R-2 in mouse hole.				
	Escape Line c/w anti-fall device.				
	Dead line anchor.				
4	Crown Block				
	Crown block 6 sheaves, groove 1 1/8", cap. 200 ton	1 unit			
5	Travelling Block				
	Cap.180 ton, Sheave groove 1 1/8"- 5 sheaves.	1 unit			
6	Elevator Links				
	1 (one) set Elevator Links 1 3/4" x 84" cap 150 tons	1 unit			

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	1 (one) set Elevator Links 2 3/4" x 108" cap 350 tons	1 unit			
7	<u>Sub structure</u>				
	c/w Dog House	1 unit			
	Clear Height under Rotary Beam:6,0m				
	Rig floor area 8 x 7 m				
	Cellar Pump c/w Discharged Line				
	Capacity on rotary beam min. 350.000 lbs, set back capacity 350.000 lbs with casing loads				
	<u>B. Rotating System</u>				
1	<u>Rotary Table</u>				
	Rotary Table , Split master bushing Kelly drive bushing	1 unit			
	Full range insert bowl for csg 20" ,13 3/8",9 5/8", 7"; DP 5", 3 1/2"; Tbg 3 1/2", 2 7/8",2 3/8". Kelly drive				
	bushing (Square and split)type HD for kelly square 5 1/4" and for kelly square 4 1/4". Rotary torque indicator at connection to transmission of DW,Double Lock				
2	<u>Swivel</u>				
	Cap. 225 ton, Pressure. 5000psi; Goose neck & wash pipe assy; Can connect to kelly 5 1/4" & 3 1/2"	1 unit			
	<u>C. BOP System(Rencana Susunan BOP : AP-PR-B/S-</u>				
1	<u>Diverter Assembly</u>	1 unit			
	2000 PSI WP Diverter 21 1/4".with operator valves and line 10" X100 m		use FH54-14 annular BOP instead. Same function, cheaper price		
2	<u>Annular BOP</u>				
	13 5/8" 5.000 psi WP Annular BOP with top connection 13 5/8"API 5.000 psi BX 160 drilled and tapped	1 unit	FH35-35		
	for studs, ring groove for BX-160 and bottom 13-5/8"API				
	7 1/16" 5.000 psi WP Annular BOP with top connection 5.000 Psi drilled and tapped for studs, ring groove				
3	<u>Bop Ram type</u>				
	13 5/8"type U double ram 5.000 psi WP, 13-5/8"API 5.000 flanged connection top and bottom with four (4) 4-1/6" 5.000 psi BX-155 studded outlets.	1 unit			
	7 1/16"double ram unit 5.000 psi WP, 7-1/16"API 5.000 flanged connection top and bottom with two (2) 2-1/16"5.000 Psi R-24 studded outlets.	1 unit			
4	<u>Ram</u>				
	Pipe Ram 13-5/8"x 5.000 psi for 9 5/8", 7", 5", 3	1 set			
	Blind Ram 13-5/8"x 5.000 psi.	1 unit			
	Blind Ram 7-1/16"x 5.000 psi.	1 unit			
5	<u>Acumulator unit</u>				

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	Accumulator unit, 12 tubes	1 unit			
	1 set min Pneumatic pump.				
	1 set electric pump.				
	Pipe rack 1 "with removable walkaway, 50 m				
	Capable operation necessity for BOP stack,HCR choke and kill line				
	High pressure hose 1 1/4"				
6	Choke & kill manifold (bpm)				
	1 set 4-1/16" x 5.000 psi choke manifold, with :	1 unit			
	5 set 3-1/8" x 5.000 psi manual gate valve				
	1 set 6 5/8" x 5.000 psi buffer chamber, with outlet 3 1/8" & 4 1/16" x 5.000 psi with pressure gauge.				
	1 set 3 1/8" x 5.000 hydarulic operated valve.				
	1 set SWACO super choke with console 3 1/8"WP 5.000 psi				
	6 set 3 1/8"x 5.000 psi manual gate valve				
	Coflexip steel hose 4"ID x 5.000 WP x 20ft, c/w 2"set quick union coupling Fig 1002.				
	1 lot tubes, spool, Connectors, adapter & flange, all assembled and pressure test				
	1 set 2 1/16" X 5.000 psi hydraulic operated valve kill manifold system				
7	Adaptor				
	13-5/8"-5000PSI*11"-5000 PSI	1 unit			
	13-5/8"-5000*11"-3000PSI				
	13-5/8"-5000PSI*13-5/8"-3000PSI				
	7-1/16"-5000PSI*7-1/16"-3000PSI				
	7-1/16"-5000PSI*13-5/8"-5000PSI				
	7-1/16*5000PSI+7-1/16*3000PSI*450mm				
	FS13-5/8"-5000PSI				
	FS21-1/4"-2000PSI				
8	Inside BOPs				
	For DP 5",4 1/2" IF connection with--release tool x 5000 psi	2 unit			
	For DP 3 1/2", 3 1/2" IF connection with release tool x 5000 psi	1 unit			
9	Safety Valve				
	1 each 5,000 PSI upper Kelly cock and lower Kelly cock	1 unit			
10	BOP Tester				
	1(satu) unit BOP Tester, dw,Test Pump and Chart Reco der.	1 unit			
	D. Circulating System				
1	Rig Floor Circulating system				
	Stand Pipe	1 unit			
	Main stand size Size 4"-5000 psi				
	Rotary hose				
	Size 3 1/2"ID-55ft/60ft,5000psi WP with union coupling 4"-5000psi	2 unit			

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	Kelly				
	5 1/4" square Kelly, 40ft, Box 6 5/8" REG LH Xpin 5-1/2" FH, RH	1 each			
	3 1/2" square Kelly, 40 ft, Box 6 5/8" REG LH Xpin 3-1/2" IF, RH,	1 each			
2	<u>Mud Pumps</u>				
	Triplex pump c/w independent charging pump	3 unit			
	Driven by diesel engine Caterpillar or equivalen				
	Capacity of triplex pump: min 1000 HP with :				
	* liner 7", 6 1/4", 6 1/2", 6 3/4";				
	* liner 6"				
	* liner 5 1/2";				
	* High pressure pulsation dampener, 5000 PSI WP;				
	* Pump stroke counter;				
	* Discharge & suction manifold;				
	* Pressure Gauge & suction manifold;				
	* Discharge - 5.000 psi				
3	<u>Storage mud tank</u>				
	Active mud tank, total capacity minimal 800 bbls, equipped with:	1 set			
	*Mud agitator;				
	*Mud gun;				
	Each suction compartment) with 15 HP agitators, 3" low pressure submerged mud guns.				
	pill (slug) tank, possum billy tank desander / desilter tank dan shaker tank.				
4	<u>Mud Mixing System Mud Hopper</u>				
	Mud mixing system with two (2) tank, two (2) mud	1 set			
	Sack table, tee with bushing, upstream jet nipple, centrifugal pump gas proof.				
	each hopper with an independent Two (2) centrifugal pump 1500 rpm, with 75 HP electric motors.				
5	<u>Trip Tank</u>	1 unit			
	Trip Tank having 50 bbl Minimal Capacity				
6	<u>Mud Agitator</u>				
	Each tank have the agitator, explosive proof motor - 20 Hp, 380 volt, 50 Hz, 3 Phase	1 set			
7	<u>Solid Control System</u>				
	<u>Shale shaker</u>	2 unit			
	With double ot treeple Cap. 1200 GPM ,linear motion shale shaker c/w motor				
	<u>Desander</u>				
	Cap. 1.000 GPM, c/w: centrifugal pump , 75HP	1 unit			
	<u>Degasser</u>				
	Cap. 1.300 GPM, with vacuum pump.	1 unit			

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	Mud cleaner				
	Cleaner with desander & desilter , Capacity 600 GPM with				
	One (1) screen shale shaker;	1 unit			
	one (1) Desander: ,capacity 1.000 GPM, c/w:centrifugal pump ,75HP				
	one (1) Desilter:,capacity 1.000 GPM,c/w: centrifugal pump ,75HP				
	Desilter				
	Capacity 600 GPM with 1 screen shale shaker	1 unit			
	Mud Lab,mud Test Laboratory house mounted on mud tank complit with electric, water, rig air, sink.	1 unit			
	E. Power System				
1	Prime Mover for Drawwork				
	CATERPILAR Diesel Engine with capacity min 800 hp	2 unit	Total1080HP through Alison transmission to drive		
2	Prime Mover for Mud PumpS				
	Caterpillar Diesel engine , 1000HP.	3 unit	independently drive the mud pump by transmission box		
3	Generator Unit, untuk utilities				
	For well site:				
	Gen-set, 500 KW, 220/380 volt	2 unit			
	For camp site:				
	Gen-set, 300 KW, 220/380 volt	2 unit			
	Above each Gen-set with :				
	F. Drilling String dan Subs				
1	Drill Collars				
	Drill Collar 8", spiral, 6 5/8" API Reg box dan pin, 150,48 ppf, Range-2, zip grooved, stress relief dan bore back	10 jts			
	Drill Collar 6-1/2", spiral, 4 1/2"IF box dan pin, 91,56 ppf, Range-2, zip grooved, stress relief dan bore back	15 jts			
	Drill Collar 4-3/4",spiral, 3 1/2"IF Box dan Pin, 46,75 ppf, Range-2 plane zip grooved, stress relief dan bore back	15 jts			
2	HWDP				
	5"OD, 47 ppf, Range-2, Heavy Weight Drill pipe with 6 1/2"OD x 2 3/4"ID tool joint, 4 1/2"IF pin box conn. With fine hard banded tool joints and centre pads	20 jts			
	3-1/2"OD, 49,3 ppf, Range-2, Heavy Weight Drill pipe with 4-3/4"OD x 2 3/4"ID tool joint, 3 1/2"IF pin box conn. With fine hard banded tool joints	20 jts			
3	Drill Pipe				

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	5"OD,Range-2, Grade G 105, 19.5#, 4 1/2"IF	150jts			
	3 1/2"OD,Range-2, Grade G 105, 13.5#, 3 1/2"IF	165 jts			
4	Pup Joint				
	Size 5" OD, Connection 4 1/2" IF Box Up x 4 1/2 Pin Down,. 5 Feet Length	3 jts			
	Size 5" OD, Connection 4 1/2" IF Box Up x 4 1/2 Pin Down,. 10 Feet Length				
	Size 5" OD, Connection 4 1/2" IF Box Up x 4 1/2 Pin Down,. 15 Feet Length				
	Size 3.1/2", CONN. 3.1/2 IF PIN X 3.1/2 IF BOX, 5 feet length	3jts			
	Size 3.1/2", CONN. 3.1/2 IF PIN X 3.1/2 IF BOX, 10 feet length				
	Size 3.1/2", CONN. 3.1/2 IF PIN X 3.1/2 IF BOX, 15 feet length				
5	Stabilizer				
	For 17 1/2"	1 set			
	Bit stabilizer one(1), string stabilizer two(2)				
	For 12 1/4"	1 set			
	Bit stabilizer one(1), string stabilizer two(2)				
	For 8 1/2"	1 set			
	Bit stabilizer one(1), string stabilizer two(2)				
	For 6 1/4"	1 set			
	Bit stabilizer one(1), string stabilizer two(2)				
6	Bit Subs				

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	for DC 9" - 7 5/8", DC 8" - 6 5/8", 6 1/2" - 4 1/2", DC 4 3/4" - 3 1/2" c/w DP float housing	1 set			
7	<u>Drill Collar Lifting Subs</u>				
	2 (two) each 6 5/8" Reg pin & 4 1/2" X H box lift sub.	2 pcs			
	2 (two) each 4 1/2" IF pin & 4 1/2" X H box lift sub.	2 pcs			
	2 (two) each 4" IF pin & 4 1/2" X H box lift sub.	2 pcs			
	2 (two) each 3 1/2" IF pin & 3 1/2" X H box lift sub.	2 pcs			
8	<u>Cross over Subs</u>				
	Complete for all tubular goods standard and fishing tools	1 set			
	<u>G. Handling Tools</u>				
1	<u>Rotary Tongs</u>				
	Manual tong, Type, for DP 5", 3 1/2", DC 4 3/4"-8"				
	Manual tong, Type, for casing 20"				
	Power casing tong, Type for Casing 13 3/8", 9 5/8", 7", 5"				
	Power tubing tong, Type, for tubing 2 3/8", 2 7/8", 3 1/2"				
2	<u>Casing Elevator</u>				
	Side door casing elevator, capacity 150 ton, for casing 20", 13 3/8", 9 5/8", 7" dan 4 1/2"				
3	<u>Drill Collar Elevator</u>				
	N/A				
	Pick up by using lifting sub thought pipe elevator				
4	<u>Drill Pipe Elevator</u>				
	Type center latch, capacity 250Ton, for: DP 5", 3 1/2"				
5	<u>Tubina Elevator</u>				
	Type center latch, capacity 100 ton, for: Tubing 2				
	<u>Rotary Slips</u>				
6	<u>Casing Slips</u>				
	For casing: 20", 13 3/8", 9 5/8", 7", 5"				
7	<u>Drill Pipe Slip</u>				
	For DP: 5", 3 1/2"				
8	<u>Drill Collar slips</u>				
	For DC: 8", 6 1/2", 4 3/4"				
9	<u>Tubing slips</u>				
	Tubing Spider Slip 3 1/2" dan 2 7/8".				

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10	(Drill Collar) Safety Clamps				
	Drill Collar safety clamps for 6 1/2" to 8 1/2" drill collar.				
	Drill Collar safety clamps for 4 3/4" to 6 1/4" drill collar .				
11	Bit breaker and Gauges Ring				
	forbit 26", 17 1/2", 12 1/4", 8 1/2", 6" and 6 1/4".				
12	Scraper				
	casing scraper for casing 9 5/8", 7"				
13	Drilling Jar				
	Drilling jar 6 1/4" integrated up and down shock				
	Absord shake 6 1/4"				
	H. Fishing Tools				
	The CONTRACTOR must supply fishing tools as specified below to catch all of the CONTRACTOR's tubulars and down hole equipment. Overshots,Taper Taps, Junk Subs, Flat Bottom Mills, Magnets and Reverse Circulating Junk Baskets must be available for 12.1/4", 8.1/2", 6-1/4", 6", 4-1/8" open hole; and 9-5/8", 7" and 5" cased hole sizes.				
	The CONTRACTOR is to supply a ditch magnet for use during any milling operations. The supplier must include third party inspection reports: covering service ability as per the applicable API regulations and the resultant inspection certificate is to be provided before mobilisation of the equipment.				
	OVERSHOTS Series 150				
	- Manufacture : Bowen or equevalen				
	For inside 9-5/8" Casing and 8-1/2" hole				
	OD Overshot: 8- 1/8"				
	Connection : 4-1/ 2"IF				
	Equipped with :				
	- Extension Sub	1 ea			
	-Basket Grapple & Control, 6-3/4" catch	2 ea			
	- Basket Grapple & Control, 6-5/8" catch	2 ea			
	-Basket Grapple & Control, 6-1/2" catch	2 ea			
	-Basket Grapple & Control, 5" catch.	2 ea			
	For inside 7" casing or 6-1/8" hole				
	OD Overshot: 5-3/4"				
	Connection : 3-1/2" IF				
	Equipped with :				
	* Extension Sub				
	* Basket Grapple & Control, 4-3/4" catch	2 ea			
	* Basket Grapple & Control, 4-1/2" catch	2 ea			
	* Basket Grapple & Control , 4-1/8" catch	2 ea			

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	* Basket Grapple & Control, 3-1/2" catch.	2 ea			
	DIE. COLLARS c/w Lipped Guide				
	Manufacture : Bowen or Equal				
	OD Die Collar : 8-1/2"	1 ea			
	Connection : 6-5/8" Reg.				
	To catch : 6-5/8"				
	OD Die Collar : 6-3/8"	1 Ea			
	Connection : 4-1/2" IF				
	To catch: 5"				
	RELEASING SPEARS				
	Manufacture : Bowen or Equivalent				
	For catch 7" casing, 20/ 23 ppf	1 Ea			
	Nominal Size : 7"				
	Connection : 4-1/2" IF				
	REVERSE CIRCULATION JUNK BASKET				
	Manufacture : Bowen or Equivalent				
	For 8-1/2" Hole	1 Ea			
	OD of Barrel: 7-7/8"				
	Connection : 4-1/2" IF				
	For 6-1/8" Hole	1 Ea			
	OD of Barrel : 5-1/8"				
	Connection : 3-1/2" IF				
	IMPRESSION BLOCK c/w re-dressing kit				
	Manufacture : Bowen or Equivalent				
	For 8-1/2" Hole	1 Ea			
	OD : 8"				
	Connection : 3-1/2" Reg.				
	For 6-1/8" Hole	1 Ea			
	OD: 5-1/2"				
	Connection : 3-1/2" Reg				
	HYDRAULIC / OIL JAR				
	Manufacture : Bowen or Equivalent				
	For 8-1/2" Hole	1 Ea			
	OD: 6-1/4"				
	Connection : 4-1/2" IF				
	For 6-1/8" Hole	1 Ea			
	OD : 4-3/4"				
	Connection : 3-1/2" IF				
	JAR INTENSIFIERS				
	Manufacture : Bowen or Equivalent				
	For 8-1/2 " Hole	1 Ea			
	OD : 6-1/4"				
	Connection : 4-1/2" IF				

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	For 6-1/8" Hole	1 Ea			
	OD: 4-3/4"				
	Connection : 3-1/2" IF				
	BUMPER SUBS				
	Manufacture : Bowen or Equivalent				
	For 8-1/2" Hole	1 Ea			
	OD: 6-1/4"				
	Connection : 4-1/2" IF				
	For 6-1/8" hole	1 Ea			
	OD: 4-3/4"				
	Connection : 3-1/2" IF				
	FISHING MAGNET				
	Manufacture : Bowen or Equivalent				
	For 8-1/2" Hole	1 Ea			
	OD: 6-1/4"				
	Connection : 4-1/2" IF				
	For 6-1/8" Hole	1 Ea			
	OD: 4-3/4"				
	Connection : 3-1/2" IF				
	WASHOVER PIPE				
	Manufacture : Bowen or Equivalent				
	For 8-1/2" Hole	1 ea			
	To was hover size of pipe 6-1/2"				
	Connection :				
	For 6-1/8" Hole	1 Ea			
	To was over size of pipe 4-3/4"				
	Connection :				
	ROTARY SHOE c/w re-dressing kit				
	Manufacture : Bowen or Equivalent				
	For 8-1/2" Hole	1 Ea			
	To was hover size of pipe 6-1/2"				
	Connection :				
	For 6-1/8" Hole	1 Ea			
	To was hover size of pipe 4-3/4"				
	Connection :				
	MILLING TOOLS (ITCOLOY) c/w redressing kit				
	Manufacture : Bowen or Equivalent				
	- 8-1/2" Flat Bottom Junk Mill	1 Ea			
	- 6" Flat Bottom Junk Mill	1 Ea			
	I. Fuel and Water Equipment				
1	Fuel Tank				
	Cap. ± 30 m3, with centrifugal pump and motor gas proof.				
2	Water tank				
	Cap± 60 m3, with centrifugal pump and motor gas proof.				
3	Water Pump				

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	Duplex Pump c/w diesel engine,150 GPM,WP:1000 psi				
	J. Other Rig Equipment				
1	Welding Machine				
	Cap.400 Ampere, with two (2) oxygen / acetylene and two (2) set cutting torch.				
2	Bug Blower				
	Cap 25.000 CFM 48", with 5HP motor gas proof				
3	Mechanic Workshop				
	c/w vise drill press, grinder, and storage area with exhaust fan				
4	Rig Lighting				
	One complete lighting system for derrick floor, mast, substructure, mud tank, mud pump, utilities etc.also for all living /working room.				
5	Drilling Instrumentation				
	weight indicator with Ton/klbs , with chart. driller console with:				
	*Mud Pressure gauge (psi)				
	*Tong torque indicator (ft lbs)				
	*RPM rotary table				
	*Pump Stroke Indicator / SPM meter pompa				
	*Rotary torque indicator				
6	Pipe Racks				
	Pipe Racks, 3'6"H x 30' L with stop pin.	2 sets min			
7	Drilling Rig Telephone				
	Handy Talky	5 ea			
8	Tool sledge				
	Complete tool for drilling				
9	Porta Camps (c/w AC & Beds)				
	Enough for 100 person living for the Company and contractor. with				
	*Storage				
	*Laundry				
	*Recreation Room				
	Be able to providing standard Catering service				
	K. Safety Equipment				
1	Safety Equipment				
	*safety belt.				
	*First aids kit in location.				
	Breathing asparatus : 30 minutes breathing apparatus.				
	Safety Sign : in indonesia languages, including but not limited to no smoking, hard hat area; safety shoes etc				

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	Personnel safety equipment,				
	Escape line with anchor, escape chair				
	Fire blanket, masks, stretchers, safety hammers, first aid kits, hand gloves, safety hats, safety shoes, coveralls, safety goggles, welder helmet, welder apron, welder gloves				
2	<u>Fire Fighting Equipment</u>				
	Extinguisher 2KG				
	Extinguisher 5KG				
	Extinguisher 75KG				
	<u>L. Drilling Rig Transportation Equipment</u>				
1	<u>Rental as required by the user</u>				
	Well Loader as Forklift Cap. 5 ton minimal	1 ea			
	Low boy	1 ea			
	Hight boy	1 ea			
	4 x 4 Pickup Light Truck , min year on 2010	3 ea			
	Crane Cap. 35 ton	1 ea			