

RIGSCO-REF NUMBER

EMAIL: sales@rigsco.com

IADC EQUIPMENT LIST LAND RIG



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LAND RIG SUMMARY

Α

		_	Certification	
Item	Description	Age	yes/no	Expiry Date
Rig Number :	ABC #01	NEW	Yes	*see remarks below
Rig Owner :	Rigsco Drilling			
Year Built/Re-built	Built 2011			
Nominal vertical depth rating w/ DP	2,500 Meters (8200ft) w/ 5" DP 3,000 Meters (9800ft) w/ 4 ½" DP			
Mast : Type: Static Hook load capacity (lbs):	JJ18038 2 sections telescopic, hydraulic raising, 125 ft/ 38m height. 400,000 lbs (1800KN)	NEW	Yes	*
Draw works: Type: Drive: Power Rating (HP): Max. designed hoisting Capacity (lbs):	JC28/11 2 x 540 hp CAT C15 Engines 1000 hp 400,000 lbs. with 10 lines 320,000 lbs. with 8 lines	NEW	Yes	*
Drilling line : Wire type : Wire diameter (inch): Nom. Breaking Strength (lbs):	6X19IWRC EIPS 1.25" 176,100 lbs.	NEW	Yes	
Auxiliary Brake : Type: Torque rating (ft.lbs):	Eaton, Model 324WCB 33,895 ft.lbs at 80 psi	NEW	Yes	*
Substructure : Type: Height (m): Clear height below rotary (m): Setback load (lbs): Rotary capacity (daN):	ZZT180 6 m (or 19.7 ft.) 4.78 m (or 15.7 ft.) 400,000 lbs 1,000,000 lbs simultaneous with maximum set-back load	NEW	Yes	*
Rotary Table : Type: Drive: Size(inch): Power Rating (HP):	ZP275 One 400 KW, motor 27.5 400 hp	NEW	Yes	*
Top drive: Make / Type:	No Top Drive			
Capacity(tons): Power Rating (HP):				
* Inspections were conducted ENTER	DATE as per API/OEM Guidelines.			

Rigsco IADC Equipmemnt List – Land Drilling Rig <u>EMAIL: sales@rigsco.com</u>



			I	V	·
Type: Capacity (lbs):TC 180 400,000 lbsNEWJeelowTravelling Block : Capacity (lbs):Type: 500,000 lbsNEWImage: Capacity (lbs):Soon constraintsHook : Capacity (lbs):TB & Hook are integrated 500,000 lbsNEWNEWImage: Capacity (lbs):Swivel : Capacity (lbs):TB & Hook are integrated 500,000 lbsNEWNEWImage: Capacity (lbs):Rig Power : Number of Engines: Continuous generator power (HP): 10002NEWYes*Mud Pumps : Power Rating (HP): Max. combined pump output: (m3min): 2 A46 (with 6-3/4" liner)NEWYes*Mud System : Max. combined pump output: (m3min): 2 A46 (with 6-3/4" liner)NEWYes*Mud System : Max. combined pump output: (m3min): 2 A46 (with 6-3/4" liner)NEWYes*Mud System : Max. combined pump output: (m3min): 2 A46 (with 6-1/2" liner)NEWYes*Mud System : Max. combined pump output: (bb): 2 Capacity (bb):1.380NEWYesMud System : Max. combined pump output: (bb): Carade:1.63 (with 5-1/2" liner)Yes*Mud System : Max: output (bb): Carade:Net HistoryYes*Drill Pipe : Carade:Size (inch): Carade:Net HistoryYesSize (inch): Carade:Net HistoryYes*Size (inch): Carade:Nei HistoryYes*Size (inch): Carade:No.s: Weight (pp7): Grade:No.s: Size (inch): No.s: <td>Hoisting Equipment :</td> <td></td> <td></td> <td>Yes</td> <td>* see</td>	Hoisting Equipment :			Yes	* see
Capacity (fbs): 400,000 lbs Travelling Block : Type: VG 225 500,000 lbs NEW NEW Second Seco	Crown Block :				remarks
Capacity (ibs): 400,000 lbs Travelling Block : Type: VG 225 So0,000 lbs B NEW NEW Song Capacity (ibs): 500,000 lbs Swivel : Type: XSL 225 Capacity (ibs): 500,000 lbs Rig Power : XSL 225 Number of Engines: 2 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 2 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 2 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 2 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 2 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 2 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 2 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 2 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 2 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 2 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 3 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 3 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 3 x Cat C18 (700 HP) NEW Yes Song Number of Engines: 3 x Cat C18 (700 HP) NEW Yes Song Song Song Song Song Song Song Song	Туре:	TC 180	NEW		below
Travelling Block: Type: Capacity (bs): 500,000 bs NEW Hook: Type: Capacity (bs): 500,000 bs NEW Swivel: Type: XSL 225 Number of Engines: Number of		400.000 lbs			
Type: Capacity (ibs)YG 225 500,000 ibsNEWHook :Type: Capacity (ibs)TB & Hook are integrated 500,000 ibsNEWSwivel :Type: Capacity (ibs)XSL 225 500,000 ibsNEWRig Power : Number of Engines2 x Cat C18 (700 HP) 2 x Cat					
Capacity (bs):500,000 lbsNEWHook ::Type: Capacity (bs):TB & Hook are integrated 500,000 lbsNEWSwivel ::Type: Capacity (bs):XSL 225 S00,000 lbsNEWRig Power :: Number of Engines: Continuous generator power (HP): Dever Rating (HP)2 x Cat C18 (700 HP) 2 0000NEWYes*Mud Pumps :: Power Rating (HP) Max. combined pump output (m3/min.): Max. pump pressure (psi) S00 psiRGF-1000 2 2 2 2 2 2 2 000 psiNEWYes*Mud System :: Max. pump pressure (psi) Max. combined pump output (g max press (m3/min.): Length (m): Length (m): Length (m): Ueight (ppi):NEWYes*Mud System :: Mud System :: Size (inch): Length (m): Weight (ppi):NeWYes*Drill Collars :: Size (inch): Weight (ppi): Grade:No drill string will be providedNEWYesDrill Collars :: Weight (ppi): Grade:No drill string will be providedImax 		VC 005			
Hook : Type: Capacity (bs): Swivel : Type: Capacity (bs): Swivel : Type: Capacity (bs): Swivel : Type: Capacity (bs): Sumber of Engines: Continuous generator power (HP): VFD system: Number of pumps: Power Rating (HP): Max. combined pump output (m3/min.): Max. pressure at max. flow rate (psi): Max. combined pump output (m3/min.): Max. combined pump output (psi): Max. combined pump output (psi): Sub (m3/min.): 1.63 (with 5-1/2" liner) Mud System: No drill string will be provided Drill String : Drill Collars : Size (inch): Weight (ppf): Grade: Size (inch): No s: Weight (ppf): Grade Size (inch): No s: Weight (ppf): Grade Size (inch): No s: Weight (ppf): Grade					
Type: Capacity (bs):TB & Hook are integrated 500,000 bsNEWSwivel :: Type: Capacity (bs):XSL 225 SU0,000 bsNEWRig Power :: Number of Engines: Continuous generator power (HP): VFD system:2 x Cat C18 (700 HP) 2 x Cat C18 (700 HP)NEWYesMud Pumps :: Power Rating (HP): Power Rating (HP): Max. combined pump output (m3/min.); Max. pressure at max. flow rate press (m3/min.); Active tank capacity (bb): Reserve tank capacity (bb): Active tank capacity (bb): Active tank capacity (bb): Active tank capacity (bb): Active tank capacity (bb): Carade:NEWYesPowel Rating :: Drill String :: Drill Collars :: Size (inch): Weight (pp): Grade:NewYesDrill Collars :: Size (inch): Weight (pp): Grade:NoNewYesSize (inch): No.s: Weight (kpf): GradeNoNewYesSize (inch): No.s: Weight (kpf): GradeNoNewYesSize (inch): No.s: Weight (kpf):No.s: Weight (kpf): GradeNoNewYesSize (inch): No.s: Weight (kpf): GradeSize (inch): No.s: Weight (kpf):NoNoINoSize (inch): GradeNo.s: Weight (kpf):NoIISize (inch): No.s: Weight (kpf):No.s: GradeIIISize (inch): No.s: Weight (kpf):No.s: GradeIIISize (inch): No.s: Weight (kpf):No.s: GradeIIISize (inch): No.s: Weight (kpf): <t< td=""><td></td><td>500,000 IDS</td><td></td><td></td><td></td></t<>		500,000 IDS			
Capacity (fbs): 500,000 lbs New Swivel :: Type: XSL 225 NEW Rig Power :: Number of Engines: 2 x Cat C18 (700 HP) NEW * Number of Engines: 2 x Cat C18 (700 HP) NEW * * Munder of Engines: 2 x Cat C18 (700 HP) NEW Yes * Mud Pumps :: Type: RGF-1000 2 1000 * * Mud Pumps :: Type: RGF-1000 2 1000 * * * Max. combined pump output (m3/min.); RGF-1000 2.46 (with 6-3/4* liner) 3.000 psi * * * Max. combined pump output @ max 1.63 (with 5-1/2* liner) NEW Yes * Mud System : Active tank capacity (bbi): 1.380 NEW Yes * Mud System : Size (inch): Length (np): 250 NetW Yes * Drill String : Size (inch): Length (np): Veight (pp): Size (inch): No si: Neight (pp):					
Swivel : Type: XSL 225 500,000 lbs NEW Yes * Rig Power : Number of Engines: 2 x Cat C18 (700 HP) NEW Yes * Mud Pumps : Type: XSL 225 NEW Yes * Mud Pumps : Type: XSL 225 NEW Yes * Mud Pumps : Type: XSL 225 NEW Yes * Mud Pumps : Type: XSL 225 NEW Yes * Mud Pumps : Type: Stemens NEW Yes * Mud Pumps : Type: RGF-1000 2 NEW Yes * Max. pressure at max. How rate (ps): 3,000 psi 2.46 (with 6-3/4* liner) NEW Yes * Mud System : Active tank capacity (bb): 1.63 (with 5-1/2* liner) NEW Yes * Mud System : Active tank capacity (bb): 450 NEW Yes * Drill String : Size (inch): Length (m): Weight (pp): Grade Ne Yes * <td>Туре:</td> <td>TB & Hook are integrated</td> <td>NEW</td> <td></td> <td></td>	Туре:	TB & Hook are integrated	NEW		
Type: Capacity (ibs): SSL 225 NEW Image: Capacity (ibs): Solution (ibs): Network Yes * Rig Power : Number of Generators Continuous generator power (HP): VFD system: 2 x Cat C18 (700 HP) 1000 NEW Yes * Mud Pumps : Number of pumps: Power Rating (HP): Max. combined pump output (m3/min.): RGF-1000 2 NEW Yes * Mud System : Number of pumps: Power Rating (HP): Max. combined pump output (m3/min.): AGF-1000 2 NEW Yes * Max. combined pump output (m3/min.): 2.46 (with 6-3/4" liner) NEW Yes * Mud System : Active tank capacity (bb): Max. combined pump output (2) max press (m3/min.): 3.000 psi NEW Yes * Mud System : Cength (m): Length (m): Weight (ppf): Grade: Size (inch): Length (m): Weight (ppf): Grade 1.380 NEW Yes * Drill Collars : Size (inch): Length (m): Weight (ppf): Grade No drill string will be provided Image: Size (inch): Length (m): Weight (ppf): Grade No drill string will be provided Image: Size (inch): Length (m): Weight (ppf): Grade Image: Size (inch): No s: Weight (kg/m): Grade Image: Size (inch): No s: Weight (kg/m): Grade Image: Size (inch): No s: Image: Size (inch): No s: <t< td=""><td>Capacity (lbs):</td><td>500,000 lbs</td><td></td><td></td><td></td></t<>	Capacity (lbs):	500,000 lbs			
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Capacity (ibs): 500,000 lbs Image: Continuous generator power (HP): Vest Cat C18 (700 HP) NEW Yes * Mud Pumps : Type: Siemens New Yes * Mud Pumps : Type: RGF-1000 NEW Yes * Mud Pumps : Type: RGF-1000 2 NEW Yes * Max. combined pump output (m3/min): 2.46 (with 6-3/4* liner) NEW Yes * Max. pump pressure (ps): 5,000 psi 3,000 psi Simens NEW Yes * Mud System : Active tank capacity (bb): 1,380 NEW Yes * Mud System : Active tank capacity (bb): 1,380 NEW Yes * Drill String : No drill string will be provided NEW Yes * * Drill Collars : Size (inch): No si No drill string will be provided Image: Size (inch):		XSL 225	NEW		
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Number of Generators 2 Continuous generator power (HP): 1000 Wud Pumps: Type: RGF-1000 NEW Number of pumps: 2 Power Rating (HP): 1000 Max. combined pump output 2.46 (with 6-3/4" liner) Max. pressure at max. flow rate 3.000 psi Max. pump pressure (pi): 5.000 psi Max. combined pump output @ max 1.63 (with 5-1/2" liner) Mud System: 1.63 (with 5-1/2" liner) Mud System: 1.380 Active tank capacity (bbi): 1.380 Netwriting : No drill string will be provided Drill String : Size (inch): Length (m): Weight (pf): Grade: Size (inch): Size (inch): No.s: Weight (pf): Grade Size (inch): No.s: Weight (pf): Size (inch): Size (inch): No.s: Weight (pf): Grade Size (inch): No.s: Weight (kg/m): No.s: Weight (kg/m): No.s: Weight (kg/m): No		0 · · · O - t · O 10 (700 LID)		res	
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Mud Pumps : Type: RGF-1000 2 Number of pumps: Power Rating (HP): 1000 2 Max. combined pump output (m3/min.): 2.46 (with 6-3/4" liner) Xeff (M3/min.): 2.46 (with 6-3/4" liner) Max. pressure at max. flow rate (psi): 3.000 psi 5.000 psi Xeff (M3/min.): 1.63 (with 5-1/2" liner) Max. combined pump output @ max press (m3/min.): 1.63 (with 5-1/2" liner) NEW Yes Mud System : Active tank capacity (bb): 1.380 NEW Yes Mud System : Active tank capacity (bb): 1.380 NEW Yes Drill String : Size (inch): Length (m): Veight (ppf): Size (inch): No drill string will be provided Yes Drill Collars : Size (inch): No.s: Weight (ppf): Grade: Size (inch): No.s: Weight (ppf): Grade Size (inch): No.s: No.s: No.s: Weight (ppf): Grade Size (inch): No.s: No.s: No.s: Weight (ppf): Grade Size (inch): No.s: No.s: No.s: Weight (kg/m): Grade	Continuous generator power (HP):	1000			
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Type: RGF-1000 Number of pumps: 2 Power Rating (HP): 1000 Max. combined pump output (m3/min.): 2.46 (with 6-3/4" liner) Max. pressure at mx. flow rate (psi): 3.000 psi Max. combined pump output @ max press (m3/min.): 1.63 (with 5-1/2" liner) Mud System : Active tank capacity (bb): Reserve tank capacity (bb): 1,380 Active tank capacity (bb): Water/brine tank capacity (bb): 1,380 Drill String : Drill String : Drill Pipe : Size (inch): Grade: Size (inch): Grade: No drill string will be provided Size (inch): Grade: No.5: Weight (ppf): Grade Size (inch): Carade No.5: Weight (ppf): Grade Size (inch): Mo.s: Weight (ppf): Grade No.5: Weight (ppf): Grade	Mud Pumps :		NEW	Yes	*
Number of pumpes: Power Rating (HP): Max. combined pump output (m3/min.): 2.46 (with 6-3/4" liner)	•	RGF-1000			
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	* Inspections were conducted ENTER	DATE as per API/OEM Guidelines.			

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Blow out preventers :					
Annular preventers:					
Make :	Shenkai	New	Yes	*	
Size (inch):	13-5/8"				
Pressure rating :	5,000 psi				
Ram type preventers:					
Make :	Shenkai Double				
Size (inch):	13-5/8"				
Pressure rating :	5,000 psi				
Accumulator Unit :	Skenkai, Model FKQ640-6	New	Yes	*	
Total bottle capacity (gal):	157				
Choke Manifold :		New	Yes	*	
Make :	Shenkai				
Size (inch):	3 1/8"				
Pressure rating :	5,000 psi				
* Inspections were conducted ENTER	* Inspections were conducted ENTER DATE as per API/OEM Guidelines.				

В



GENERAL RIG SPECIFICATIONS

B.1 Mast & Substructure

B. 1	1.0 Description & Specifications	Compliance Yes/No ? If No , give details under list of non-compliance
a)	Self supporting telescopic double mast.	Yes
b)	Mast shall be capable of handling at least a dynamic load of 9 5/8" 32 Lb/ft casing in air at 270m tvd plus an overpull of 100 Klbs.	Yes
c)	Mast fitted with heavy duty, vapor tight, fluorescent lighting system, certified for use in a Zone 1 or 2 area as required by IP code.	Yes
d)	Maximum height with mast down when moving of 11m.	Yes
e)	Substructure capable of straddling a standard cellar with adequate separation between substructure beams and/or wheels so as to clear the external walls of the cellar	Yes
f)	Setback capacity of at least 1000m 4 1/2" drill pipe + BHA.	Yes
g)	Substructure capacity of at least the combined loads in b) and f).	Yes
h)	Clear height below rotary beams of 6.0m.	Yes
i)	Casing stabbing board adjustable for range 2 & 3 tubulars. Stabbing board to have automatic stops, "dead man" controls, anchor point outside the board and be certified as a man riding device.	No Stabbing board with Rig
j)	Catwalk length (min) 13.7m. Catwalk shall be provided with access stairs from ground level, have a removable pipe stop at one end and be designed to safely access and assemble wire line and tubing conveyed logging tools.	Yes
k)	Drill floor c/w dog house, flush set-back area, anti-slip surface over the entire working area, a gate to close off the top of the V door ramp, pad- eye for a lower logging sheave rated to 10,000 daN, recessed into the rig- floor and the recess provided with a cover. Toeboards for all rig floor railings. Two/three access ways with none alongside the 'V' door ramp unless stairway is already in place and cannot be moved/removed because it is part of rig superstructure. Rigs with stairs alongside the 'V' door shall strictly control their access.	Yes
I)	 2x rig floor winch, 1x monkey board winch All winches to be fitted with cable guard and, if fitted by OEM, spooling devices Pneumatic winches to be fitted with silencers 	Yes
	The man riding system (winch, cable, sheaves etc) shall be engineered to be one compatible unit complete with : - Limited max pull to 150 kg - Independent secondary braking system - Slack line shut off mechanism - Control lever returns to neutral - Crown block sheave designed for man-riding c/w safety sling - Emergency STOP facility unobstructed - Spooling device - Drum guard - Upper and lower travel switches - Emergency lowering facility e winch shall not to be used for any other purpose other than man-riding.	No man Riding Winch Available
n)	Counterbalance system for rig tongs and pipe spinning tong.	Yes- Hydraulic
0)	Anchor point to suspend upper logging sheave during stripping, rated to 10,000 daN.	Yes



	p) Anchor point to suspend blocks during slip/cut. Block must be suspende by special dedicated sling from crown block and not via fast line clamp i front of Drawworks (does not apply to rigs with top drive).	
(q) Drip pan below the rotary table area to contain fluids spilled on rig floor.	Provided pan as part of riser.

	Contractor Specifications
B.1.1 Mast	
Make/type :	RG-JJ18038-Telescopic Double
Height (m) :	38 m
Width of base (m x m) :	3.45 x 2.16
Width of top (m x m) :	2.21 x 1.88
Max. hook load with No. of lines strung (lbs) :	400,000 with 10 lines
B.1.2 Racking platform	
Make/type :	RG-JJ18038-Telescopic Double
Racking platform capacity of drill pipe : Size/No.	41/2 inch / 3,000 Meters
Racking platform capacity of drill collar : Size/No.	9-1/2" / 5 stands
Racking platform capacity of drill collar : Size/No.	8" / 5 stands
B.1.3 Substructure	
Make/type :	RG- ZZT180-Foldable Six Leg
Height (m) :	6.00
Width (m) :	3.75
Setback capacity (lbs):	400,000 lbs
Rotary capacity (lbs):	400,000 lbs with maximum set-back load
Clear height below rotary table beams (m):	4.78
Substructure footprint (m x m) :	7.73 x 14.55
Catwalk (m):	16
B.1.4 Rig floor winches	
Make :	Litian
Quantity :	2
Туре :	YJ5B & YJ3C
Capacity & S.W.L. (Lb/KN) :	11,020 lbs. & 50 KN for type YJ5B, 6612 lbs.
	& 30 KN for type YJ3C
Wire diameter (inches) :	5/8" for YJ5B & 9 16/" for type YJ3C
Automatic brakes :	Yes
Automatic spooling :	No
B.1.5 Monkey board work winch	
Make :	THERN
Quantity :	1
Туре :	Series 4771 Helical Gear Winch
Capacity & S.W.L. (daN) :	40' & 1500 lbs.
Wire diameter (mm) :	8
Automatic brakes :	Yes
Automatic spooling :	No

B.1.6 Rig floor man-riding winch	
Make :	None Provided
Quantity :	
Туре :	

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Capacity & S.W.L. (daN) :	
Non-rotating wire diameter (mm) :	
Automatic brakes :	
Automatic spooling :	
B.1.7 Utility winch (i.e. catwalk, sub-base winch)	Not provided as Crane is used for handling on catwalk and sub-base areas.
Make :	
Quantity :	
Туре :	
Capacity & S.W.L. (daN) :	
Wire diameter (mm) :	
Automatic brakes :	
Automatic spooling :	



B.2 Drawworks and Associated Equipment

В.2	2.0 Description & Specifications	Compliance Yes/No ? If No , give details under list of non- compliance
a)	Rated to provide at least a hoisting speed of 0.38 m/sec (75 ft/min) based on the weight of a vertical string of 1,500 4 $\frac{1}{2}$ " drill pipe plus bottom hole assembly in 11kPa/m mud.	Yes
b)	Safety device to prevent the travelling block colliding with the crown block and the rig floor.	Yes
C)	Triple Disc Eaton auxiliary brake with independent air supply. Auxiliary brake should be located in a safe area or equipped and certified as suitable for use in a Zone 2 area.	Yes
d)	Asbestos free brake blocks	Yes
e)	Closed loop brake water cooling system for drawworks and auxiliary brake rated for 60 deg C ambient temperatures.	Yes

	Contractor Specifications
B.2.1 Drawworks	
Make/type :	RG- JC28/11
Drum type :	22" x 41"
Spinning cathead type :	Hydraulic
Breakout cathead type :	Hydraulic
Blocks safety device type/model:	Crown-O-Matic
Rated capacity (kW/HP):	805KW/ 1080 HP
Input power continuous (kW/HP) :	805KW/ 1080 HP
Brake type :	Hydraulic Disc
Maximum Safe Hook load 10 lines (lbs) :	400,000 lbs
Maximum Safe Hook load 8 lines (lbs) :	320,000 lbs
B.2.2 Draw works power	
Number of engines :	2
Engine make :	Caterpillar C-15
Engine model :	Caterpillar C-15
Maximum input power continuous (kW/HP) :	1080Hp/2100 rpm
B.2.3 Auxiliary brake	
Make/Type :	Eaton
Model :	WCB 324
Torque Rating (ft.lbs) :	84,000 ft.lbs at 50 rpm



B.3 Hoisting Equipment

В.3	.0 Description & Specifications	Compliance Yes/No ? If No , give details under list of non- compliance
a)	Capacity of the blocks, hook and swivel shall be suitable for the maximum designed hoisting capacity	Yes
b)	Hook to have spring assembly and locking device.	Yes
C)	Jumper bars fitted on crown block.	Yes
d)	Safety net below crown block.	Yes
e)	Gooseneck and wash pipe min ID = 76 mm.	Yes
f)	Swivel with 6 5/8" Reg left hand pin connection.	Yes
g)	Fitting for wireline entry on top of Gooseneck.	Yes
h)	Drilling line drum to be powered.	Yes
i)	Drilling line 6 x 19 RL IWRC, IPS or EIPS (or equivalent).	Yes
j)	Drilling line sized to provide minimum safety factors of 3.0 for drilling and 2.0 for running casing as per API RP 9B.	Yes
k)	Dead line anchor with adequate load rating and fitted with jumper bars.	Yes

	Contractor Specifications
B.3.1 Crown block	
Make/type :	TC-180/ 5 Sheave Dual Shaft
Rated capacity (lbs) :	400,000 (1800KN)
No. of sheaves :	6
B.3.2 Travelling block	
Make/type :	YG-225 Integrated Block & Hook Assembly
Rated capacity (lbs) :	500,000
No. of sheaves :	5
B.3.3 Hook	
Make/type :	
Rated capacity (lbs) :	500,000
B.3.4 Swivel	
Make/type :	XSL225
API Rated bearing capacity (lbs) :	500,000 (2250KN)
Comparative dead load (lbs) :	
Test/working pressure (psi) :	5,000 psi
B.3.5 Drilling line	
Size (inch)/type :	1.25"
Breaking strength (daN) :	176,100 lbs.
Length (ft) :	3280
B.3.6 Deadline Anchor	
Make/type :	Huabei Petroleum/ JZG24
Load rating (lbs) :	500,000
Weight sensor type :	Vernier Style



B.4 Rotary System

B.4	I.0 Description & Specifications	Compliance Yes/No ? If No , give details under list of non-compliance
a)	Rotary table minimum opening of 698.5 mm (27 ½").	Yes
b)	Back brake fitted.	Yes
C)	Soft torque rotary system fitted.	Yes
d)	Rotary table static load rating of at least 300m 9 5/8" 42 Lb/Ft casing in air.	Yes
e)	Driller's full adjustable torque limit switch.	Yes
f)	Lock down pins for kelly drive bushing.	Yes
g)	Anti-slip mat.	Yes
h)	Hinged/Split type type master bushings shall be supplied.	Yes
i)	Drive rollers to suit each size of kelly provided.	Yes
j)	Kelly bushing safety guard installed.	Yes

	Contractor Specifications
B.4.1 Rotary table	
Make/type :	ZP275
Minimum opening (mm/inch) :	698.5 mm / 27 ½"
Static load rating (daN) :	1,000,000 lbs
Rated power (kW/HP) :	400 / 536
Maximum continuos torque (ft/lbs) :	20,265
Soft torque rotary system (Bentec Mark II or equivalent)	No
Maximum rotary speed (RPM) :	250 rpm
Emergency chain drive :	No
B.4.2 Hinged/Split type master bushings	
Make/type :	ZP275
B.4.3 Kelly bushing	
Make/type :	RG
Size :	4 ¼" & 5 ¼" Hex
Lock down assembly :	Yes
B.4.4 Kelly bushing safety guard	
Make/type :	None Provided
B.4.5 Top drive	No Top Drive is installed
Make & Type :	
Rated capacity (tons) :	
Test/working pressure (psi) :	
Remote operated kelly cock :	
Drive :	
Make & Type :	
Rated power (kW/HP) :	
Rated torque (daN/m) :	
Two-speed gearbox :	
Maximum rotary speed (RPM) :	
Mudline diameter (mm/inch) :	

С



POWER SUPPLY SYSTEMS

C.1 Rig Power Plant

C.1	.0 Description & Specifications	Compliance Yes/No ? If No , give details under list of non-compliance
a)	Diesel electric power system.	Yes
b)	Diesel engine plant c/w closed loop cooling system designed for 60 deg C ambient temperatures.	Yes
C)	Engines able to run on crude.	No
d)	Engine room floor to be leak tight with a provision for recovering any spilled oil.	Yes
e)	Noise level outside engine room under all normal operating conditions should be below 85 dB or if not controls must be in place to manage noise.	Yes
f)	In the drilling mode sufficient power must be available to control and power simultaneously mud pumps and rotary table at full load and the draw works at half load.	Yes
g)	Sufficient power available to supply rig offices at peak demand.	Yes
h)	Emergency shutdown switches to shutdown AC/DC power system located at the driller's position and at the power plant.	Yes
i)	Provision of stable auxiliary power supply for all Company's or Company's Other Contractor(s) equipment (including but not limited to mud logging unit, MWD unit, centrifuge), when required.	Yes
j)	A rig service air system with air compressors, receivers and dryers to adequately power all pneumatic rig equipment.	Yes

	Contractor Specifications
C.1.1 Diesel engine plant	
Quantity :	2
Make :	Caterpillar
Туре :	Cat-C-18
Continuous output power available (kW/HP) each engine :	508 KW / 681 HP
C.1.2 AC- Generator	
Quantity :	2
Make :	Caterpillar
Туре :	480 kW C-18
Continuous output power available (kW/HP) each generator :	480 kW
Output volts (Volts) :	400 VAC
C.1.3 VFD system	
Number of VFD bays :	1
Make :	Siemens
Туре :	SIMOVERT 6SE7137-0EE62-3BA0-Z
Cable trays above ground level :	Yes
C.1.4 Transformer system	
Quantity :	No Transformer- AC Electric Drive
Make :	
Туре :	
Output volts (Volts) :	
Frequency (Hz):	



C.1.5 Rig service air system	
Air Compressors	
Quantity :	2
Make & Model :	Sullair / LS-12-50HH
Rated capacity :	125 PSI @ 5 m3/min
Working pressure: kPa	861 KPa/125 psi
Air Receivers	
Quantity :	2
Make & Type :	Xianyang Compressor Factory
Rated capacity :	2.5m3
Working pressure: kPa	1200 KPa/174 psi

C.2 Camp Power Plant

C.2.0 Description & Specification	Compliance Yes/No ? If No , give details under list of non- compliance
a) Sufficient power available to supply camp at peak demand.	

	Contractor Specifications
C.2.1 Diesel engine plant	Camp Not Supplied at this time
Quantity :	
Make :	
Туре :	
Continuous power (kW/HP) :	
C.2.2 AC- Generator	
Quantity :	
Make :	
Type :	
Continuous power (kW/HP) :	
Output volts (Volts) :	



DRILL STRING / HANDLING TOOLS (NO DRILL STRING & HANDLING TOOLS PROVIDED)

D.1 Drill String

D

D.2 Handling Tools

	Contractor Specifications
D.2.1 Hydraulic Power Tongs	
Make:	RG Petro
Туре:	ZQ203-100
Pipe Size Range	127mm to 203 mm
Max torque capacity	35 KN-m
Integral Back up	yes

D.3 Fishing Equipment

D.3.0 Description	Compliance Yes/No ? If No , give details under list of non-compliance
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To Be provided by Fishing contractor



E. WELL CONTROL EQUIPMENT

E.1 BOP Stack

E.1.0 Descrip	tion & Specifications	Compliance Yes/No ? If No , give details under list of non-compliance
specifications		Yes
b) All well contro service.	ol equipment shall meet NACE standard MR-01-75 sour	Yes
the maintena	e OEM or approved spares/replacement parts shall be used in ance of well control equipment. No alterations shall be made control equipment without the written approval of the OEM or ved facility.	Yes
	ion that includes repairs or modifications are to be carried out or OEM-approved facility.	Yes
in the mainte	ment parts: flanges, valves, fittings, and discharge lines used enance of choke manifold assembly should contain metals accordance with API RP 53.	Yes
by an API re	ion that does not involve repairs or modifications may be done ecognized facility.	Yes
done by an <i>i</i>	ent where the OEM no longer exists, re-certification may be API-recognized facility.	Yes
	eneral specification is for a 13 5/8", 34,500 KPa WP BOP annular and Double ram preventers.	Yes
	Annular, 34,500 kPa, fitted with accumulator bottle for stripping operations.	Yes
	Rams to have locking mechanism.	Yes
	Bottom ram cavity suitable for blind/shears that can shear all drill pipe in use (except heviwate).	Yes
	Cross overs, clamps, nuts, bolts & gaskets for use on the BOP.	Yes
e) Rams	Pipe rams, 4 1/2".	Yes
	Shearing blind rams (fitted with tandem boosters if required by OEM)	No
	Variable rams; 4 ¹ / ₂ " to 7".	No
	A complete set of spare ram packers/seals and elements for each ram size and annular.	Yes
f) Side outlets	2 x 4 1/16" outlets for choke line, each fitted with one hydraulic valve and one manual valve. 2 x 4 1/16" outlets for kill line, each fitted with two manual	Yes
	valves and one NRV.	Yes
g) Kill line	2" ID (min), hard pipe or flexible hose.	Yes
h) Choke line	4" ID (min), fireproof, acid resistant, flexible hose.	Yes
	spool to connect BOP stack to Company supplied wellhead	Yes
j) Spacer spoo	ols (to position BOP stack) as required.	Yes
k) Lock down f	langes (wear bushing housing) as required.	Yes
I) Flow riser fo	or 13 5/8" BOP.	Yes
m) BOP stack h the rig.	nandling system for positioning BOP along the centre line of	Yes



	Contractor Specifications	
E.1.1 13 5/8" 34,500 kPa (5,000 psi) WP BOP		
a) Bag type preventer		
Quantity :	1	
Make :	Shenkai	
Type :	FH35-35	
Size (inch) :	13 5/8	
WP (psi):	5,000	
Connection top/bottom :	Studded top 13-5/8", 5,000 psi / API Flanged, 13-5/8", 5,000 psi bottom	
Fitted with accumulator bottle for stripping :	No	
b.1) Ram type preventer		
Quantity :	1	
Make :	Shenkai	
Туре :	FS35-35	
Single/double :	Double	
Size (inch) :	13 5/8"	
WP (psi) :	5,000	
Side outlet ID (inch) :	4 1/16"	
Connection top/bottom :	Flanged	
Lock mechanism :	Yes	
b.2) Ram type preventer		
Quantity :		
Make :		
Туре :		
Single/double :		
Size (inch) :		
WP (psi) :		
Side outlet ID (inch) :		
Connection top/bottom :		
Lock mechanism :		

E.2 BOP Control System

E.2	2.0 Description & Specification	Compliance Yes/No ? If No , give details under list of non-compliance	
a)	BOP control system to be in accordance with API standards.	Yes	
b)	General system type; an independent automatic accumulator unit rated for 20,700 kPa (3,000 psi) WP comprising control manifold, two/three air- driven pumps (50:1 ratio), one 15 kW electrically driven pump and a fluid reservoir.	Yes	
C)	Unit to be located remote from rig floor.	Yes	
d)	Unit to have low pressure and low reservoir level alarms.	Yes	
e)	Without recharging, the unit has to be capable of closing and opening all preventers and closing again the bag type and one ram type preventer and holding them closed against rated working pressure of the preventers. Calculations to substantiate the usable accumulator volume must be provided.	100	



-		
f)	Drillers control panel to have;	
	- Control over all BOP functions	
	Graphic panel showing all functions and controls.	
	 Indicator lights to show function positions. 	
	- Pressure regulator for annular preventer.	Yes
	- Low accumulator system pressure warning.	
	- Low reservoir level warning.	
	- Low rig air pressure warning.	
	- Control for bypass valve.	
g)	A remote panel located either adjacent to the location exit, or in proximity	No
	to the contractor toolpushers office.	
h)	Remote panel will operate the accumulator unit directly, not via the rig	N/A
	floor.	
i)	Remote panel to have indicator lights.	Yes

		Contractor Specifications
E.2.1 Accumulator unit		
Make :		Shenkai
Model/type :		FKQ640-6
Installation site :		Near Generator House
System fluid capacity	liter	1120
No. of bottles installed	Qty	16
Total bottles capacity	liter	592
Bottle working pressure	psi	3,000
Control manifold model :	·	FKQ640-6
Low pressure/low reservoir level alarms	y/n	Yes
Serial (No.):	•	11-41
E.2.2 Triplex pumps		
Quantity :		1
Make :		Shenkai
Model :		QB21-80
Each driven by motor of	kW	18.5
Flow rate of pump	liter	35 l/min
At max. operating pressure	kPa (psi)	20,700 kPa (3,000 psi)
E.2.3 Air pumps		
Quantity :		2
Make :		Shenkai
Model :		QYB40-120I
Flow rate of each pump	liter	4.5 l/min
At max. operating pressure	kPa (psi)	800 kPa (116 psi)
E.2.4 Driller's control panel		
Make :		Shenkai
Model :		QSZ-6
Serial No. :		11-41
Low accumulator system pressure warning		Yes
Low reservoir level warning		Yes
Low rig air pressure warning		Yes
Pressure regulator for bag		Yes
Control for by-pass valve		Yes
Quantity of pressure gauges :		4
E.2.5 Remote control panel		
•		No Demote Quartied
Make :		No Remote Supplied



Model :

Location site :

E.3 Choke Manifold & Testing Equipment

E.3	.0 Description & Specification	Compliance Yes/No ? If No , give details under list of non-compliance
a)	Choke manifold of 5,000 psi WP, sour service, in accordance with API Specifications	Yes
b)	All items of equipment to have a nominal 3" ID (min).	Yes
C)	One manual adjustable and one remotely operated power choke. Spare manual choke bonnet to be on site to cater for fast change out.	Yes
d)	Remote control unit positioned on rig floor with view to the choke manifold.	Yes
e)	No threaded connections in choke manifold.	Yes
f)	Portable test pump rated to 5,000 psi complete with suitable 4 hr chart recorder.	Yes
g)	Cup type testers for 13-3/8" 81.1 kg/m, 9-5/8" 53.6 kg/m, 7" 34.2 kg/m casing.	No
h)	Test stump for testing BOP with adaptor.	Yes
i)	Test sub for pressure testing kelly, kelly cocks and BOP's.	No

		Contractor Specifications
E.3.1 Choke manifold		
Make :		
Size	inch	3 1/8"
Working Pressure	(psi)	5,000
H ₂ S service	y/n	Yes
Quantity of valves :		11
Make/model :		Shenkai
Size	inch	3 1/8"
Quantity of adjustable chokes :		1
Make/type :		Shenkai
Quantity of power chokes :		1
Make/type :		Shenkai
Power choke remote control panel	y/n :	Yes
Make/type :		Shenkai
E.3.2 Hydraulic test pump		
Make :		Yangcheng Sanyi Petroleum
Model :		SKT-140
E.3.3 Test stumps for BOP testing		
Location :		Skid Mounted On site
Complete with test tools	y/n	Yes
E.3.4 BOP test sub		
Туре :		Pump In
Connection :		4 ½" IF Pin x 2" 1502 Weco



F. MUD SYSTEM

F.1 High Pressure Mud System

F.1.0 Description & Specifications	Compliance Yes/No ? If No , give details under list of non-compliance
 At least two (2) mechanically driven triplex mud pumps capable maintaining a combined output of 1000 gpm at an operating pressure 2,300 psi for 17 ½" hole, 800 gpm at an operating pressure of 2700 psi for 12 ¼" and 600 gpm at an operating pressure of 3500 psi for 8 ½" hole. 	of
b) All components of the high pressure mud system must have a workir pressure of at least equal to the maximum discharge pressure of mu pumps and a nominal ID of 4". Test pressures shall be 1.5 times th working pressure, lines to be designed and constructed in accordance with ANSI B31.3, API 1104, ASME IX or equivalent standard.	ud ne
c) Each mud pump shall be complete with :	
Dedicated centrifugal charge pump.	Yes
Adjustable / resettable pressure relief valve.	Yes
Separate suction line for each pump and manifold for either pump.	Yes
Pulsation dampeners on discharge line, same rating as HP lines Discharge line to be dipping down from relief valve	
Replaceable suction and discharge screens.	Yes
Liners and pistons to operate at the parameters specified in a)above.	Yes
Pressure gauge before isolation valve.	Yes
Dedicated closed piston cooling system.	Yes
Isolation switch and lock-out mechanism on electric drive motors.	Yes
Rigid covers to enclose all moving parts.	Yes
Manual drive mechanism to turn power end.	Yes
Individual discharge line.	Yes
Bleed-off valve with discharge to mud tanks or waste pit	Yes
Drip tray to contain spills.	Yes
 d) Standpipe with gooseneck, connected to a manifold, constructed without threaded connections and designed as follows : 	Yes
Lines to drill string to be nominal 4" ID (min).	Yes
Minimum working pressure equal to the maximum working pressure of the mud pumps.	Yes
Choke for bleeding off pressure complete with up stream gate valve for isolation.	Yes
A separate self-draining fill-up line to the bell-nipple joint.	Yes
Fitted with an outlet for MWD instrumentation and complete with a 2" gate valve.	Yes
Ability to simultaneously pump through the drill string with one pump and down the annulus with the other at maximum pump output.	Yes
Ability to simultaneously pump through the drill string with one pump and through the kill line with the other pump.	Yes
Line-up both pumps using steel lines to the utility standpipe on the rig floor.	Yes



	Rotary hose of API grade D, 3 ½" ID (min) complete with hammer unions at both ends. Hose to be secured with snub	Yes
	lines.	
e)	manifold, constructed without threaded connections and designed as	No
	follows :	
	Working pressure 5,000 psi.	No
	Sufficient height to enable reciprocation of a casing string while cementing.	No
	A connection to both the standpipe manifold and the HP	No
	cementing line NOTE: during normal operations the utility	
	standpipe shall be disconnected from the standpipe manifold	
	A local pressure gauge.	No
f)	Casing wash down hose, suitable also for cementing and acid service; 5,000 psi WP, 10m long, nominal 2" ID (min), API grade D, complete with	Yes
	hammer unions and snub lines.	
g)	Reverse circulation line, 2" nominal ID (min), located adjacent to the	Yes
0/	standpipe manifold and run directly to the shaker header box.	100
h)	Cementing line, 10,000 psi WP, running from the standpipe manifold to	No
	the end of the mud tanks complete with Weco 1502 connection.	
i)	Low pressure casing fill up line.	Yes
j)	Chicksan steel hoses; 2" nominal, 3.6m 6 piece integral loop, of the non-	No
	screw type w/ Weco 1502 hammer unions, suitable for sour service. Each	
	piece must be tagged with a unique identification number, working	
	pressure and last test date. Snub lines must be supplied. Provide two	
	each of the following accessories (min);	
	- lo-torque plug valves	
	- male x male subs	
	- female x female subs	
	- 90 deg. T-pieces	
	- 60 deg. Y-pieces	
	- 90 deg. Elbows	
	- 3" x 2" crossovers	
	 swivel with Weco 1502 connection 	

		Contractor Specifications
F.1.1 Mud pumps		
a) Mud pump No. 1		
Make :		RG Petro
Model :		RGF-1000
Mud pump driven by Engines	No. Type :	CAT 3512
Continuous power rating of each Engine	kW (HP)	764 KW /1025HP
Fluid end	type	Triplex, Single Acting Piston
Cylinders/valves cover :		3/6
Equipped with :-		
Pump stroke counter	type	Chongyi NBN 15-E2
Liner sizes available	inch	6 ¹ ⁄ ₂ , 6 & 5 ¹ ⁄ ₂
Supercharging pump	type	6 x 8 Mission Style
Independently driven by motor	kW (HP)	55 KW (75 HP)
Туре :		
Discharge/suction line dia (ID x ID)	inch	4" / 12"
Working flowrate		600 gpm at 2,300 psi
		400 gpm at 3,500 psi
b) Mud pump No. 2		
Make :		RG Petro
Model :		RGF-1000
Mud pump driven by motors	No. Type :	CAT 3512

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Continuous power rating of each motor	kW (HP)	764 KW /1025HP
Fluid end	type	Triplex, Single Acting Piston
Cylinders/valves cover :		3/6
Equipped with :-		
Pump stroke counter	type	Chongyi NBN 15-E2
Liner sizes available	inch	6 1/2, 6 & 5 1/2
Supercharging pump	type	6 x 8 Mission Style
Independently driven by motor	kW (HP)	55 KW (75 HP)
Туре :		
Discharge/suction line dia (ID x ID)	inch	4" / 12"
Working flowrate		600 gpm at 2,300 psi
		400 gpm at 3,500 psi



F.2 Low Pressure Mud System – Tanks

F.2	.0 Descripti	on & Specifications	Compliance Yes/No ? If No , give details under list of non-compliance	
a)	Active tanks	950 bbls, reserve tanks 430 bbls, water tanks 250 bbls. The complete system to be capable of working with 12 ppg mud. System shall include a cuttings chute to collect underflows from the solids control equipment to feed into an open top pipe (chute) to the waste pit. Also all tank dump lines shall feed into a sufficiently sized trough or ditch supplied by operator to the waste pit.	Yes	
b)	All tanks	Covered with secured grating and as free as practicable of obstructions and trip hazards (e.g. valve operating handles). Man-hole covers to be marked.	Yes	
		Rigid handrails with a minimum of two courses and a toe board. The layout of the tanks shall be such that tripping hazards are avoided.	Yes	
		Dump valves which permit the complete emptying of tanks to the waste pit via supplied trough or ditch.	Yes	
		Paddle agitators both sufficient in number and power rating fitted in all active and reserve tanks (excluding the sand trap and degasser settling tanks) to maintain a mud of 12 ppg in suspension. Mud agitator blades shall be angled, sized and powered in accordance with OEM specifications for the size of tanks.	Yes	
c)	Active tanks	Dimensioned to give at least 10cm level change for 1m ³ volume change.	Yes	
		Sectioned for in-series treatment by process equipment ending at the suction tank.	Yes	
		Contain a setting tank (sand trap) of approx 60 bbls capacity with sloping/Flat bottom and a minimum 12" size butterfly dump valve.	Yes	
d)	Water tanks	One tank approx 250 bbls capacity.	Yes	
e)	Pill tank	approx 80 bbls capacity.	Yes	
f)	Trip tank	80 bbls capacity, calibrated for drill pipe in use.	Yes	
		Sized to give level change of at least 2" for each stand of open ended drill pipe.	Yes	
		Filled from flowline, with facility to bypass.	Yes	
		Served by dedicated pump to give; 6 bbls/min (min) across the bell nipple, or to fill drill pipe.	Yes	
	Deserve texts	Returns from choke manifold shall be routed through degasser to the trip tank.	Yes	
g)	Reserve tanks	s Tanks shall be provided with a low pressure circulation system.	Yes	
		Each tank approx 220 bbls capacity.		
		Return/settling tank.	Yes	
		Separate feedline to the mud pumps.	Yes	
		Separate return line from the ditch to the settling tank.	Yes	
	15- 18 bbls.		Yes	
		Centrifugal pump to displace brine to the mud pump.	Yes	
		Connection from the discharge side of the mixing pump so as to be able to supply a remote unit with clean brine.	Yes	
h)	Mud ditch	Allows for either access to or bypass of any active tank for mud being circulated in the active or reserve system.	Yes	



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i) Flow line	To include fittings to install Company supplied mass flow meter for kick detection.	Yes
 j) Drill water flexible host tankers for o 	Offloading; reserve and water tanks shall be provided with ses and fittings required for hooking up to drill water ffloading.	Yes
diameter h	Distribution; reserve and water tanks shall be fitted with 4" ard-piped goose necks to the top of the tanks for the ompany supplied drilling water.	Yes
	np A low pressure transfer pump (minimum capacity 1.5m ³ /min) shall be provided for all the reserve/water tanks.	Yes
I) Cement Unit	Tie In Reserve and water tanks to include a suction/discharge point for water tankers and a suction/feed point for Company supplied cementing unit. At least one water tank shall a centrifugal pump (2 x 3) to enable treatment of bacterial/H2S contaminated water and its supply to the shaker area for dilution of mud. This system shall be separate from the systems supplying water to flush the cuttings chute and wash down the rig floor.	Yes
suction fro reserve ta any of the same time the reserv		Yes
	Two venturi type mixing hoppers capable of a throughput of 15 – 18 bbls/minute.	Yes
	Two mix pumps correctly sized for 55kW.	Yes
	Pipe work diameter shall be compatible with the pump size provided; (i.e a 6 x 8 pump shall have a minimum 8" dia. suction line from the tank and a 6" dia. discharge line).	Yes
	Company approved dedicated caustic mixing area with emergency shower facilities.	Yes
	Capability of handling 1.5 Ton bags of chemicals.	Yes

		Contractor Specifications
F.2.1 Mud tank system		
a) Active mud tanks		
Quantity :		3
Total capacity	bbls	1010
Dimensions	m	12.5 x 3.0 x 2.2
Description/Capacity No. 1	bbls	Shaker Tank / 320 bbls
Description/Capacity No. 2	bbls	Settling Tank / 350 bbls
Description/Capacity No. 3	bbls	Suction Tank / 340 bbls
Capacity degasser tank	bbls	8.4 (Included in Shaker tank)
b) Reserve tanks		
Quantity :		2
Total capacity	bbls	370
Dimensions	bbls	12.5 x 3.0 x 3.2
Description/Capacity No. 1	bbls	Reserve Tank-1 / 80 bbls
Description/Capacity No. 2	bbls	Reserve Tank-2 / 290 bbls
Description/Capacity No. 3	bbls	
c) Water tanks (Brine tanks)		



Quantity :		1
Total capacity	bbls	250
Dimensions	<u> </u>	9 x 3.1 x 2.8
Description/Capacity No. 1	bbls	Water Tank / 250
Description/Capacity No. 2	bbls	
Description/Capacity No. 3	bbls	
F.2.2 Settling tank		
Capacity	bbls	150
F.2.3 Pill tank		
Quantity :		1
Description/Capacity No.1	bbls	18.9 bbls
Description/Capacity No.2	bbls	
F.2.4 Trip tank		60 bbis
Capacity	bbls	
Level indicator make/type :		ZhenJiang Petro/ Digital
Electric pump make :		Nanyang
Model/type :		SB 3" X 4"-9 1/2"/ Centrifugal
Motor output	kW (HP)	15 kW (20 HP)
F.2.5 Stripping tank		
Capacity	m ³	Not Supplied
Equalizing facility with trip tank	y/n	
Transfer pump	y/n	
F.2.6 Mud agitators	<i></i>	
Quantity :		9
Make :		ZhenJinag Petro
Model :		WHC-16
Driven by motor of		
	kW (HP)	11 KW (15 HP)
F.2.7 Mixing pumps		
Quantity :		2
Make/Model :		SB6X8J-12 ¹ / ₂
Driven by motor: rpm :	x kW (HP)	1470 x 55 kW (74 HP)
F.2.8 Mud mixing hopper		
Quantity/location :		2
Make/Model :		ZHP150M
Feed pump make :		Chengdoo
Type/size centrifugal pump :		Centrifugal / 6 x 8 x 11"
	pm x kW (HP)	1200 x 55 kW (74 HP)
F.2.9 Transfer pumps		
		2 (including 2 x mix nump)
Quantity for mud tanks :		3 (including 3 x mix pump)
Quantity for water tanks :		1 Observed as 7UD450M
Make/Model :		Chengdoo ZHP150M
Type :		Centrifugal type 6 x 8 x 11"
Driven by motor	type	Nanyang Electric, AC Induction motor
Power output	kW (HP)	55 kW (75 HP)
F.2.10 Chemical mixing tank		
Quantity :		1
Description/Capacity	bbls	15
Chemical mixer type :	20.0	Agitator
		- Greater
F.2.11 Caustic Mixing Unit		



Quantity :	1
Туре :	Agitator



F.3 Low Pressure Mud System – Process Equipment

F.3	.0 Descript	ion & Specification	Compliance Yes/No ? If No , give details under list of non-compliance
a)	Cellar pump	Two cellar pumps shall be provided, each with a capacity at least equal to the maximum flow rate. Complete with a discharge line to the shakers or waste pit.	Yes
b)	Shakers processing	Minimum of two, multiple screen, linear motion or balanced elliptical shakers, 5g force. Capable of 100% of mud returns with a 12ppg density through API 180 mesh screens at 1000 gpm. Shakers shall be no more than 5 years old at commencement of contract.	Yes
		Header boxes to be of spreader type and to have dump chutes to the waste pit.	Yes
		Full kit of manufacturer's recommended spare parts and listed. Manufacturer's preventive maintenance program in place	Yes
C)	Screens	and. Records kept. Minimum stock of screens shall be approved	Yes
		(depending on type and condition of shaker). Use only those recommended by OEM	Yes
d)		asser Sized to process up to 50% of the maximum flow rate.	
<u>u)</u>	Vacuum Deg	The suction taken from a degasser tank of minimum capacity 20 bbls, located immediately downstream of the sand trap(s).	Yes Yes
		Liquids from the degasser shall discharge into a treatment tank, which shall be equipped with an adjustable high level equalization valve to the degasser tank.	Yes
		Gas shall be vented to the waste pit, (min. distance from rig 150') via a dedicated line with no cut off or isolation valves and shall be routed so as to avoid any bends.	Yes
e)	Desilter/ Desa	 Inder Sized to process 100% of the mud returns at maximum flow rate with either 12 x 2" cones or 10 x 3" cones. Fed by a 6 x 8 centrifugal pump to produce 30- 60 psi at inlet manifold. 	Yes
		Suction from the settling tank (75 bbls min capacity) immediately downstream of the degasser tank.	Yes
		Overflow directed to next compartment downstream but not to suction tank.	Yes
		Underflow shall be discarded to the waste pit.	Yes
inle	pressure ga t manifold.	A pressure gauge (0-50 psi range), fitted with a diaphragm below in order to prevent blocking of the auge with seal solids, shall be installed on the feed	Yes
f)	Poor Boy	Of 36" (min) diameter, with 8" lines in/out. Capable of processing 1.5m ³ /min (min) highly gas cut mud. Designed ed in accordance with EP 2002-1500.	Yes
		Discharge by the most direct route with minimal bends and without any isolation points, into the degasser tank through at least an 8" line.	Yes
		One 8" vent line shall run from the mud-gas separator directly to the waste pit. At the waste pit a T-piece shall be fitted to allow diverting the flow in the direction of the location run-off. At least 100m of 8" line shall be used from this T-piece.	Yes



Vent lines to be securely anchored and fitted with snub lines across the connections.

	Contractor Specifications
F.3.1 Shale shaker	
Quantity :	2
Make :	HS280-3P
Type :	Linear
Size screens :	As per F.3.0 c
Driven by No. of electric motors :	2 each 2.2KW/3HP
Combined Max. flow rate gpm	650 gpm of 12 ppg density mud through API 180 mesh screens.
F.3.2 Desander	
Make :	TSC Offshore Group
Quantity of cones :	12
Cone size : inch	2
Type/size centrifugal pump :	6 x 8, SB6X8J
Driven by electric motor of rpm x kW (
Max. flow rate m ³ /mir	n 3.3
Min. operating pressure with un weighted mud kPa	413 kpa /60 psi
F.3.3 Mud/gas separator (poor boy)	
Make/type :	Zhenjiang Petro
Minimum diameter ID inch	36
Gas discharge line OD inch	8
Gas discharge line running to :	Flare Pit
F.3.4 Vacuum Degasser	
Make :	TSC Offshore Group
Type :	Vacuum, Model HVV-300
Type/size centrifugal pump :	6 x 8, SB6X8J
Driven by electric motor of kW (H	
Discharge line running to :	Tank DS2
Vacuum pump make :	TSC Offshore Group
Type :	Piston
F.3.5 Centrifuge	
Make/ Type:	Chengdu West Petro/ Small Bowl Centrifuge
Bowl Size (Diameter/ Length):	450mm x 1000mm
Bowl Speed	2200 rpm
Feed Pump Size:	6 x 8, SB6X8J
Serial Number:	LWB050
F.3.6 Cellar pump	
Quantity :	2
Make (e.g. Flygt) :	Wilden
Type :	Double Diaphragm
Capacity gpm	230



F.4 Mud Laboratory

F.4.2 Laboratory	Compliance Yes/No ? If No , give details under list of non-compliance	
 Laboratory shall be provided and furnished with a complete set of equipment and chemicals for testing of drilling fluids in accordance with API or ISO standards, including the following : 	To Be Provided by Mud Company	
- Mud balance	Yes	
- True weight mud balance	Yes	
- Marsh funnel viscometer with extra mud cup	Yes	
- 6 speed electric viscometer, calibrated every 6 months and	165	
dated		
- Rheometer heating cup		
- Retort kit 50 mls, 2 each heating cells and condensers		
- API filter press	Yes	
- High temperature/high pressure filter press	105	
- Sand content kit (complete)		
- pH meter (electrode type)		
- Range of pH strip paper set	Yes	
- Consumables (gaskets, O rings, spares)	100	
- Hand centrifuge and tubes		
b) Equipment and chemicals for performing the following tests :		
- Salinity (Cl)		
- Hardness (Ca, Mg)		
- Potassium (K)		
- Alkalinity (Pm, Pf, Mf)		
- Lime pH content		
- Aciditity		
- Garrett gas train for sulphide content		
- Hach sulphide kit		
- Methylene blue kit		
- Pilot testing equipment including :		
- Hamilton beach mixer/Waring blender		
- Precision balance		
- Hot plate(s)		
- General glassware		
- Tools (spanners, screw drivers, Allen keys, etc)		
- Drying oven		
- Chemical/additive quality testing – Reference materia	1	
(kaolinite, etc)		
- Pyknometer (density barytes), calibrated		
- Completion Fluid Testing – Turbidimeter (NTU)		
- Stimulation Fluid Testing – Hydrometers ranging 0.7- 1.2		
c) Oil mud testing equipment and chemicals (only when OBM in use):		
- Electrical stability meter (digital)		
- 50:50 mix of xylene and iso propanol		
- Xylene		
- Iso Propanol		
- Phenolphthalein		
- 0.1 N sulphuric acid soln		
- Potassium chromate indicator solution (5 gr/100 cc)		



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- Silver nitrate solution (0.282 N)	
- Aktaflo E	
- Calcium buffer solution	
- Calver 11 indicator	
- 0.1 M EDTA solution	
- Magnetic stirrer	
- Magnesium buffer solution	
- Magnesium indicator	



G. CASING/CEMENTING

G.1 Casing & Tubing Equipment

G.1.0 Description & Specifications	Compliance Yes/No ? If No , give details under list of non- compliance
a) Casing Bowls; 13 3/8", 9 5/8", 7".	No- Operator Supplied
b) Tubing Slips; 2 7/8", 3 1/2"	Yes

		Contractor Specifications
G.1.1 Hydraulic Casing Tongs		
Make:		Jiangsu Xinxiang
Туре:		TQ340-35Y
Pipe Size Range		4" to 13 3/8"
Max torque capacity		35 KN-m
Integral Back up		No
G.1.2 HPU for hydraulic Casing tongs		
Make:		Jiangsu Xinxiang
Туре:		FYZB-120
Power	KW/HP	37 KW/ 50HP
Flowrate	gpm/L/min	30 gpm
Max pressure	MPa/psi	3000psi (20Mpa)



H. INSTRUMENTATION

H.1 Drilling Instrumentation

H.1.0 Description		Compliance Yes/No ? If No , give details under list of non- compliance
a) General alarm system	The alarm shall be audible under all operating conditions throughout the drilling location, including external and all internal work spaces. It shall consist of the following characteristics : Audible signal Visual signal	Yes
b) At driller's serveds	A flashing Light.	Vee
b) At driller's console	Weight indicator.	Yes
	Stand pipe pressure gauge;Vernier 0-7,000 psi	Yes Yes
	Rotary speed tachometer.	
	Rotary torque indicator (in daNm or ft/lbs).	Yes
	Pump stroke counters; one per pump plus individual and cumulative totalizer.	Yes
	Tong torque indicator.	Yes
	Pit volume totalizer; computerized analogue system (M/D Totco Mud Watch or equivalent) comprising of the following features : Readout of total active and reserve mud volumes. Individual tank read out. Loss gain meter with an accuracy of 0.25m ³ . Audio and visual alarm with high and low settings.	Yes
	Mud flow indicator with high / low audio / visual alarms	Yes
	Trip tank indicator to give a read out in stands for the size of drill pipe in use plus a total tank volume indication calibrated such that a volume change equivalent to one stand of drill pipe may be detected.	Yes
	Remote choke control unit; comprising the following : Standpipe and choke manifold pressure gauge sized in accordance with equipment pressure ratings. Pump stroke indicator for each pump plus individual and cumulative totalizer. Choke control.	Yes
	Utility stand pipe pressure gauge; Vernier 0- 7,000 psi.	Yes
c) Standpipe Pressure Gauge:	0-7,000 psi, mounted on standpipe. (MD type D or equivalent). To be visible from driller's position.	Yes



d) At driller's doghouse	Drilling parameter recorder; computerized monitoring or pen recorder for: WOB / string weight (daN) Rate of penetration (m/hr) Rotary speed (RPM) Rotary torque (Amps) Pump pressure (kPa) Pump rate each pump (SPM)	Yes
	Pit volume recorder; 24 hr recorder monitoring	Yes
	active & reserve tanks.	100
	Flow rate recorder; 24 hr recorder.	Yes
	Trip tank recorder; 24 hr recorder.	Yes
e) At choke manifold-	Standpipe pressure gauge; Vernier 0-7,000 psi	Yes
	Choke manifold pressure gauge; Vernier 0- 10,000 psi.	Yes
	Gauges at choke manifold to be combined on one panel and be visible from choke operating position.	Yes
f) Deviation equipment	A deviation measuring device in the range 0-8 degrees c/w sinker bars and overshot.	Yes
g) General Instruments	Tri-cone bit gauge rings; 17 ½", 12 ¼", 8 ½".	Yes
	Internal / external calipers; 0-10"	Yes
	3-point calipers.	Yes
	Derrick tapes; 0-30m.	Yes

H.2 **Rig Communication System**

H.2.0	Description	Compliance Yes/No ? If No , give details under list of non- compliance
a)	Contractor shall make provision for the siting of Company supplied communications unit adjacent to the radio operators accommodation (refer to C6). Contractor shall provide a 230Vac (±10%) and 47-65Hz (minimum load 63 Amps) power supply to Company communications unit. Contractor shall provide routine maintenance and inspection of the unit including lifting points and the air conditioning system.	No- Supplied by Mudlogging Contractor
b)	Public address system at the rig site. Equipment to be explosion proof.	No- Supplied by Mudlogging Contractor
c)	Intercom system: between Company office, Contractor office, Drilling Engineers office, Driller's position, Monkey board, Choke Manifold, Shale Shakers, Guard Hut and Mud Logging Unit (as and when required). Spare line to MWD cabin to be available. Equipment to be explosion proof.	No- Supplied by Mudlogging Contractor



K. MOBILE CAMP

K.1	.0 Description	Compliance Yes/No ? If No , give details under list of non- compliance
a)	Mobile camp shall be designed and constructed in accordance with the standards and specifications in C6.	NO CAMP IS SUPPLIED WITH THE RIG
b)	Rig site offices shall be provided for : - Company site representative - Contractor site representative - Company or Contractor drilling engineer	
C)	Company site representative office to be fitted with an Uninterrupted Power Supply system (UPS) and Power Conditioner.	
d)	One-man room sleeping accomodation c/w toilet and shower facilities at rig site for Company site representative, Contractor site representative, mud engineer and Company or Contractor drilling engineer.	
e)	Rig site 20-man training/meeting room c/w TV and video equipment, overhead projector and screen, table, chairs, white board, notice board.	
f)	Rig site 3-man prayer room for Muslim staff.	
<u>g)</u> h)	Sufficient sleeping accomodation at camp site for Contractor's personnel. Two-man room sleeping accomodation c/w toilet and shower facilities and four-man room sleeping accomodation for up to twenty four (24) Company or Company's Other Contractor(s) personnel at camp site.	
i)	Kitchen, mess, recreation, laundry, ablution, dry and refrigerated food storage facilities.	
j)	Clinic to be situated at camp site and be furnished/equipped in accordance with Company's HSE standards in C9.	
k)	Prayer room caravan, air conditioned, for Muslim staff.	



L. SAFETY EQUIPMENT

L.1	•		Compliance Yes/No ? If No , give details under list of non- compliance
a)	safety hats (non metallic), protection (where noise levels)	ment for all Contractor personnel at the rig site, hard toed safety boots, safety overalls, ear vels exceed 85 dB), gloves and safety glasses.	Yes
	when necessary, rubber be for chemical handling), full etc.), dust masks. Welders c/w batteries (supervisory	ment for Contractor personnel at the rig site bots, rubber aprons, rubber gloves (elbow length face visors, eye shields (for grinding machines, safety equipment, explosion proof hand torches staff only), safety belts c/w lines.	Yes
,	areas and shall be supplie		Yes
b)		ed from the effects of solar heating, shall be rkshops, shale shakers, mixing hopper, engine	Yes
c)	Derrick safety equipment: Climbing assistant, for 2 per reach crown Safety belts Derrick escape chute	ersons to reach monkey board, one person to	Yes
d)	Substructure safety equipr Fall arrestors for 2 persons Working platform to nipple	s mounted under substructure	Yes
e)	Fresh air blowers; bug blow		Yes
f)	Gas Monitoring	Hydrocarbon in air; linked to general alarm system, sensors at bell nipple, shakers, engine intakes.	No- Provided by H2S Company
		H2S in air; sensors at bell nipple, drill floor, shakers, vacuum degasser, suction tank, two tone alarm audible over all areas of location, flashing red lights visible from all areas of location	No- Provided by H2S Company
g)	Portable handheld multi ga oxygen c/w probes and as	as monitoring system, for H2S, hydrocarbon and pirator pump.	No- Provided by H2S Company
h)	Personal H2S monitors	12 (eg Compur 4100) + 1 test unit	No- Provided by H2S Company
i)	Gas detectors/sniffers	2 (eg Drager MOD 21/31)	No- Provided by H2S Company
j)		vith hand held probes and aspirator pump	No- Provided by H2S Company
k)	Winds socks.		No- Provided by H2S Company
I)	Fire pump	Portable pump at rig site capable of delivering 1.3m ³ / min at 700 kPa,	Yes
		Sufficient hose to cover site area	Yes
m)	Fire extinguishers	Adjustable spray discharge nozzles dry powder type at generator rooms, mud	Yes Yes
		tanks, mud pump areas. Dry powder type at switch gear & distribution boards where temp > 40 degC	Yes
		CO2 type at switch gear & electrical distribution boards where temperature < 40 degC.	Yes

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and	Pressurised H2O type at each cabin, office work area exit.	Yes
	Dry powder wheeled type at engine room and workshops.	Yes
n) SCBA equipment	Refer to Well Engineering Business Control	No- Provided by H2S
	Document for specifications.	Company
	Minimum air capacity of 30 minutes.	No- Provided by H2S
		Company
Two emergency equipment	containers; one positioned at the main gate	No- Provided by H2S
	he other positioned at the opposite end of the rig	Company
site, next to the run-off (seco	ondary briefing area). Each container shall be	
	ly, lighting, air conditioning, a wind sock on top in	
Primary briefing area	6 SCBA sets + 6 spare cylinders.	No- Provided by H2S
		Company
	Resuscitator + 1 spare cylinder.	No- Provided by H2S
		Company
	Charging compressor.	No- Provided by H2S
		Company
	Stretcher.	No- Provided by H2S
		Company
	Maps of the rig site with search routes clearly	No- Provided by H2S
	marked.	Company
Secondary briefing area	6 SCBA sets + 6 spare cylinders.	No- Provided by H2S
,	· · · · · · · · · · · · · · · · · · ·	Company
	Resuscitator + 1 spare cylinder.	No- Provided by H2S
		Company
	Stretcher.	Yes
	Maps of the rig site with search routes clearly marked.	Yes
Drill floor	2 SCBA sets + 8 escape packs.	No- Provided by H2S
		Company
Shale shakers	4 escape packs stored in clearly marked	No- Provided by H2S
boxes.		Company
	Company site representative office SCBA set	No- Provided by H2S
		Company
	Contractor site representative officeSCBA set	No- Provided by H2S
		Company
Contractor drilling engineer	office SCBA set	No- Provided by H2S
		Company
Derrick	escape pack.	No- Provided by H2S
		Company
o) First aid equipment	first aid kits (at drill floor and Contractor site representative office)	Yes
	2 resuscitators with spare charged cylinders (at clinic)	Yes
	stretchers (Huxley or Anderson type)	Yes

Μ.



MISCELLANEOUS EQUIPMENT

M.1.0 Descripti	Compliance Yes/No ? If No , give details under list of non- compliance	
a) Pipe racks	Set with adequate capacity for casing, drill pipe and drill collars. Pipe racks shall be inspected and certified as fit to support the maximum expected load.	Yes
b) Ditch magnet	for each shaker header box.	Yes
c) Fuel storage	Diesel storage tank suitably sized plus day tank.	Yes
, 0	Transfer pump.	Yes
	In line purifier (eg centrifuge).	Yes
	Water Separator for Diesel Deliveries.	Yes
d) Workshop	Suitable for mechanic to carry out repair work.	Yes
e) Stores	Sufficient skid mounted stores and baskets for all Contractor furnished equipment, supplies and spare parts. Skids shall be designed to accommodate the maximum expected loading and shall be accessible from both sides.	Yes
f) Guard hut	Positioned at entrance to location.	Yes
1	I tank, skid mounted with 5m ³ capacity.	No
h) Waste bin for		No
i) Vehicles	Forklift, rough terrain, for handling casing, tubing and drill pipe, reversing alarm.	Yes- Rental
	Crane, rough terrain mobile crane capable of all necessary day to day work, c/w crown saver, weight indicator and reversing alarm.	Yes- Rental
	Sufficient 2/4WD estates or pick-ups, diesel, with air conditioning and fitted out in accordance with Company's safety specification for vehicles.	Yes
	Bus, diesel, with air conditioning and fitted out in accordance with Company's safety specification for vehicles.	Yes- Rental
	One 2/4WD LWB estate car available for Company site representative, diesel, with air conditioning and fitted out in accordance with Company's safety specification for vehicles.	Yes- Rental
	One vehicle must be on site at all times that can accommodate and properly secure a stretcher inside the vehicle. If required, time to convert a vehicle to accommodate a stretcher shall take 20 minutes or less	Yes- Rental Ambulance
i) Welding kit, e	lectric welding set for use anywhere on location.	No
	e cutting torches for use anywhere on location.	No
	cleaner suitable for use in Zone 1.	Yes
	ortable, stand mounted floodlights for use anywhere on	Yes
	ole water transfer pumps for use anywhere on location.	Yes
	lizer / stop collar pneumatic nail hammer.	No
	llite phone for Company site representative.	Yes
	a c/w zoom and flash, images in jpeg format.	Yes
<u>"</u>	er at the rig site.	Yes
	er at radio room (unless already provided by Company).	Yes
	uate spare parts for Contractor's equipment.	Yes



N. RIG MOVING

N .1	I.0 Description	Compliance Yes/No ? If No , give details under list of non- compliance
a)	Trailers shall be designed and constructed in accordance with Company's transport specifications (refer to C6).	Yes
b)	Rig shall be capable of moving (i.e. rig down, move and rig up) between wells in at least the following times .	
	Up to 10km in 5 days.	*Yes
	Up to 50km in 6 days.	*Yes

		Contractor Specifications
c) N.1.1 Rig/Ca	mp Moving Times	d)
Rig	· ·	
Rig down	days	*2
10km move	days (daylight	*4
hours)		
50km move	days (daylight	*5
hours)		
100km move	days(daylight	*6
hours)		
500km move	days(daylight	*10
hours)		
Rig up	days	*2
Camp		
Rig down	days	5 hours
50km move	days(daylight	0.5 day
hours)		
100km move	days(daylight	1 day
hours)		
500km move	days(daylight	5 days
hours)		
Rig up	days	5 hours
N.1.2 Rig/Camp Loads		
Rig Loads		Refer to Attachment 1
Camp Loads		Refer to Attachment 2
Note		
 Rig moving is a concurre 	ent operation with rig-down and rig	-up.



Attachment 1

		R	IG LOADS				
DESCRIPTION	NO. OF TRANSPORT LOADS REQUIRED		SKID OR TRAILER	WIDE LOAD	MAX. AXLE LOAD (TONS)	WEIGHT (TONS)	
		SHORT MOVE	LONG MOVE				
Sub-base & Substructure	6	F/T	F/T	S			30 each
Mast	8	F/T	F/T	S	6 x W		15 each
Set-back	2	F/T	F/T	S	W		15 each
Draworks spreaders	2	F/T	F/T	S			10 each
Draworks	3	F/T	F/T	S			33, 27, & 11 Tons
Rotary table & beam	2	O/F	F/T	S			15 each
SCR House	1	F/T	F/T	S			25
Generator House	4	F/T	F/T	S			25 each
Day Tank	1	O/F	F/T	S			20
Fuel Tank	2	O/F	F/T	S			20 each
Mud Pumps	2	F/T	F/T	S			42 each
Water Tanks	3	O/F	F/T	S			15 each
Shaker Tank	1	F/T	F/T	S	W		40
Mud Tanks	4	F/T	F/T	S			23 each
Tank ladders	1	F/T	F/T	S			5
Trip / Strip Tank	1	O/F	F/T	S			15
Catwalk	2	O/F	F/T	S			10 each
V-Door	1	F/T	F/T	S			10
Floor ladders	1	F/T	F/T	S			5
Dog house	1	O/F	F/T	S			20
Rig flooring & railings	2	F/T	F/T	S			15 each
Beams	1	F/T	F/T	S			15
Grass hopper	1	F/T	F/T	S			15
Cable trays	1	F/T	F/T	S			12
Koomey unit	1	O/F	F/T	S			20
BOP Stack	1	F/T	F/T	S			30
Choke manifold	1	F/T	F/T	S			20
Drill Line spool	1	F/T	F/T	S			20
Fishing tool skid	1	O/F	F/T	S			25
Substitutes skid	1	F/T	F/T	S			25
Pipe bins	14	O/F	F/T	S			30 each

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						v v
Store containers	4	F/T	F/T	S		25 each
Rig office and Accommodation	3	F/T	F/T	S	3 x W	30 each
Primary and Secondary briefing Cabins	1	O/F	F/T	S		20
Welding shop	1	O/F	F/T	S		15
Pipe racks	2	F/T	F/T	S		6 each
Crane	1	F/T	F/T	S		30
Fork lift	1	F/T	F/T	S		15
High & Low horse	1	F/T	F/T	S		5
Miscellaneous items	10	F/T	F/T	S		10 each
TOTAL TRANSPORT REC LOADS LIST			S			
		Short Move	Long Move			
No.of Prime Mover Loads		Nil	Nil			
No.of Oil Field Loads		30	Nil			
No.of Flat Trailer Loads		67	97			
No.of Self Driven Loads		Nil	Nil			
No.of Wide Loads		11	11			
Total No.of Loads		97	97			
Abbreviations						

Abbreviations

P/M = Prime Mover

O/F = Oil Field

F/T = Flat Trailer

S/D = Self Driven

T = Trailer Load

S = Skid Load

W -= Wide Load



Attachment 2

			CAM	P LOADS – PE	RMANENT					
DESCRIPTION	NO. C LOAE		REQUIRED			TRANSPORT REQUIRED		WIDE LOAD	MAX. AXLE LOAD (TONS)	WEIGHT (TONS)
			SHORT MOVE	LONG MOVE						
Caravans	9		F/T	F/T		9 x W		25 each		
Power house	1		O/F	F/T				20		
Fuel Tank	1		O/F	O/F				10		
Store container	1		F/T	F/T				25		
Spare motor skid	1		O/F	O/F				15		
Spare tool bin	1		O/F	F/T				15		
TOTAL TRANSPOR LOADS	T REQU			NVOY			_			
		Sho	ort Move	Long Move						
No.of Oil Field Loa	ds		4	2						
No.of Flat Trailer Loads		10		12						
No.of Self Driven Loads			Nil	Nil						
No.of Wide Load	s	9		9						
Total No.of Loads	S		14	14						
Abbreviations	•						_			

Abbreviations O/F = Oil Field

F/T = Flat Trailer

S/D = Self Driven T = Trailer Load

S = Skid Load

W -= Wide Load