



WELL SERVICES PETROLEUM
COMPANY LIMITED

"SCHEDULE A"

CONTRACTOR'S

EQUIPMENT

W. S. P.

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SCHEDULE A

OFFSHORE MODULAR PLATFORM RIG

REFERENCE NO.: RFQ-EPTT-003-DRI-05

"WSPCL RIG NO. 5"

CONTRACTOR'S EQUIPMENT

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
1	National 1625 DE, 3,000 HP with Baylor 7838 brake, 1-5/8" Drilling Line powered by GE 752 electric motors	1
2	Skytop Brewster B1600T, 1,600 HP Triplex Pumps powered by two (2) GE 752 electric motors (3)	3
3	National 37½" Rotary Table unitized with GE 752 Electric motor and transmission, 500 tons capacity, Drive bushing.	1
4	Oilwell 550 Ton Swivel complete with Varco 6600 Pneumatic Kelly Spinner – Standby.	1
5	Oilwell 650 ton Travelling Block	1
6	5½" x 40" Hexagonal Kellys	1
7	Varco 27 H.D.P. Kelly Bushing Pin Drive	1
8	7,500 ft. 1-5/8" 6 x 19 I.W.R.C. Drilling Line	(Spool) 1
9	Mathey Wire Line Unit – 15,000 ft. .102 Piano Wire	1
10	3½" I.D. x 75 ft. Gates 8,000# Test Rotary Hoses	2
11	Varco TDS4S Top Drive,	1

Nick St

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ELECTRICAL

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
1	G 3512 Caterpillar natural gas powered engines with GE Type AT1 generators located under pipe racks	4
	Two (2) D399 Caterpillar Diesels with Cat. SR4. SCR generators located under quarters – standby system.	2
2	Hill Hayes 6-Bay SCR system located under pipe rack	1

Mark JG

WJ

B.O.P. & H.P. EQUIPMENT

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
1	13-5/8" Hydrill GK 3,000# Annular B.O.P.	1
2	13-5/8" Cameron 5,000# Single B.O.P. Type "U"	1
3	13-5/8" Cameron 5,000# Double B.O.P. "U"	1
4	13-5/8" 5,000# Drilling Spool	1
5	13-5/8" 5,000# Riser Spool	1
6	3-1/16" 5,000# Choke Manifold as per REPSOL Requirement.	1
7	Koomey 80 – 6 Station Accumulator Air/Electric with remote for Driller and Toolpusher cabins, to meet API RP 53 standards.	1
8	All sizes B.O.P. Rams specified	Lot
9	Stainless Steele B.O.P. Hoses	Lot
10	A – 1 Upper Kelly Cock	1
11	T.I.W. Lower Kelly Cocks 5", 3½" & 2-7/8" 10,000#	1
12	Inside B.O.P's 5", 3½" and 2-7/8" 5,000#	6
13	5,000# Full Opening Safety Valves	6

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TUBULARS

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
1	10,000 ft. 5" S-135 19.5# 4¼" I.F. Drill Pipe DS-1 Level 5, with TCS 8,000 Hard Banding.	Lot
2	15,000 ft. 3½" S-135 13.3# 3½" I.F. Drill Pipe DS-1 Level 5, with TCS 8,000 Hard Banding.	Lot
3	3,000 ft. 2-7/8" S-135 Drill Pipe DS-1 Level 5, with TCS 8,000 Hard Banding	Lot
4	Hev-wate 5" I.F.	15
5	Hevi-wate 3½" I.F.	15
6	8" Spiralled Zip Lift Drill Collars	15
7	4-3/4" Drill Collars	15
8	Fishing Jar for 5", 3½" Drill Pipe	Lot
9	Pup Joints 5', 10', 15', 20', 25' for 5", 3½", 2-7/8" Pipe Bit and Cross-overs Subs and Handling Tools for Contractor Supplied Tubulars and as specified by REPSOL	Lot
10	Varco SSW40 Spinning Wrench, Pneumatic	1
11	Hawk Jaw Iron Roughneck	1
12	Rotating Mousehole	1

Nikhil

CS

SOLIDS CONTROL SYSTEM MUD HANDLING
EQUIPMENT PROVIDED BY WSPCL,
SERVICED AND MAINTAINED BY REPSOL

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
1	Mud process deck with (4) 4 Screen Derrick FLC 2000 Hi G flow line Cleaners	4
2	16 x 4" Hydro Cyclones 1,000 GPM - Sweco	32
3	Sweco SC4 Centrifuges	2
4	Derrick Vacu Flo 1,000 Degasser	1
5	50 bbl. Trip Tank	1
6	Mud Cleaner (1) 2 E48 - 120 - 4TA over 4 panel Derrick	1
7	6 x 8 Halco Centrifugal Pumps	4
8	50 cu. ft. Surge Tanks	2
9	Brandt 10 HP Mud Agitators	8

John J.

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**RIG FLOOR EQUIPMENT
INSTRUMENTATION**

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
1	The rig floor will be capable of containing mud spills. Describe Equipment: Drip pan under Rotary and Drawworks.	
2	Weight Indicator Petron	1
3	Tong Torque Indicator Petron	1
4	Rotary Torque Indicator Petron	1
5	Drilling Recorder (8 pen unit) MD Totco	1
6	Pump Stroke Counters Petron/Tecpower	1
7	Mud Pump Pressure gauges Petron	1
8	Rotary Techometer Petron	1
9	Air Hoist: 1. Rig Floor IR KU6L Manrider IR 5K	1 1

Walter Jt

WJ

RIG FLOOR EQUIPMENT
INSTRUMENTATION - (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
10	Pit Volume Totalizer Petron	1
11	Flow Show Device (W/Driller & Co. Man Monitors) Petron	1
12	Standpipe Pressure Gauges 0-5000psi Equipped	1

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SAFETY EQUIPMENT

<u>ITEM NO.</u>	<u>DESCRIPTION</u>
1	2 – Bed Hospital
2	2 – Stretchers, Spine Board, Neck Brace
3	Examination Table
4	3 – Emergency Eye Wash Fountains
5	Oxygen Kit and Crash Cart
6	Manual Resuscicator, Defibulator, Nebulizer
7	Blood Pressure Kit, Suction Kit, Hudson Life Saver Kit
8	Harnesses: Lewis Derrickman Harness – other full boy harness
9	Helideck: Crash box, fire monitors (foam system) Potable gas alarms Safety glasses, safety goggles, safety hats
10	Fire: Helmets 2 – Fire Boss Extinguishers – D5 Extinguishers and Fire Hoses Self contain Breathing Aparatus Suppression System Fall Arrestors (retractable land-yard) Emergency Escape Breath Apparatus
11	Emergency Alarm System: Life Jackets, Life Rings Inflatable Life Rafts Two (2) 44 man Survival Craft - Whittaker Confine space – Winches & Tripod Stand Emergency Radios Fire Blankets, Marks, Respirators Goggles, Anti-flash Glasses, Sleeves, Spats

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COMPLIMENTARY EQUIPMENT

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
1	Deepwell Pumps, two in operation, one standby, two for "Leap Frog"	5
2	Maintex ML 6400 Pedestal mount cranes 100 ft. boom. 48.32 tons at 20 ft.; 22.37 tons at 100 ft.	2
3	SSR 100 IR Screw Type compressors Air Dryer package: 'P' Tanks; 2 Modules of 3,000 cub. ft. each C'Treat Model FD 602-8; 450 bbl. per day each, Reverse Osmosis, Watermakers. Potable Water 500 bbls. Drill Water 500 bbls. Fuel 460 bbls. (4) 25 man Survival Capsules	2 2
	Sewage Treatment for 100 people with Monitoring system. Hydraulic Bolt Machine Mud Bucket	
4	Quarters for 90 persons with Helideck to meet MOE and CAA's requirement for Bell 212, 412, 422 Helicopters and laid out per REPSOL's requirements.	
5	Drill Floor, Rotary Table, Drawworks fitted with Drip Pans Six (6) Hand Held Radios Two (2) with Head Sets	

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FABRICATION AND MAST

ITEM NO.

DESCRIPTION

- | | |
|---|---|
| 1 | Four (4) Crane support beams 83 ft. long, 3 ft. wide x 10 ft. high with 3/8" Crimp Wall Web, complete with sway braces. |
| 2 | One (1) Crane Rig-up containers 20 ft. long x 8 ft. wide x 8 ft. high. |
| 3 | Two (2) east lower Crane base 26 ft. long x 12 ft. wide x 12 ft. high. |
| 4 | Two (2) west lower Crane base 26 ft. long x 12 ft. wide x 12 ft. high. |
| 5 | Two (2) Crane Boom Rest – 30 ft. long x 12 ft. wide x 10 ft. high. |
| 6 | Two (2) lower Skid Frame (South), 51 ft. long x 17 ft. wide x 3 ft. high. |
| 7 | Two (2) lower Skid Frame (Middle), 51 ft. long x 17 ft. wide x 3 ft. high. |
| 8 | Two (2) lower Skid Frame (North), 51 ft. long x 15 ft. wide x 3 ft. high. |
| 9 | Two (2) Quarters Pony – Gen. sidev 42 ft. long x 7 ft. wide x 11.5 ft. high. |

Wally St

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FABRICATION AND MAST – (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>
10	One (1) Drill Floor Wing (off Driller's side)
11	One (1) Drill Floor Wing (Driller's side)
12	One (1) Drill Floor Wing (Drawworks side)
13	Two (2) Substructure Drill Floor sections complete with ¼" checkered plate flooring, drip pans under Rotary Table and Drawworks, set back area covered with ½" flat back-up plate.
14	Two (2) Active Mud Tanks, 29 ft. long, 8 ft. 6 ins. Wide x 14 ft. high with a capacity of 400 bbls.
15	Two (2) Active Mud Tanks, 10 ft. long, 8 ft. 6 ins. wide x 14 ft. high with a capacity of 150 bbls.
16	One (1) Mud Treatment Deck
17	One (1) North Truss.
18	One (1) South Truss.

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FABRICATION AND MAST – (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>
19	Two (2) Centrifugal Pump Skids
20	One (1) D.C. Motor Skid
21	Five (5) Pipe Rack sections, 50 ft. long x 12 ft. wide x 6 ft. high, complete with handrails.
22	One (1) Pipe Slide and Vee-Door Ramp, 40 ft. long x 10 ft. wide x 4 ft. high, with removable pipe stop. Centre portion is covered with ½" flat plate. Ramps is complete with 3 ft. 6 ins. high handrail and stair on each side.
23	One (1) Reserve Mud Tank, 31 ft. long x 8 ft. wide x 10 ft. high for a capacity of 350 barrels.
24	Two (2) Diesel Fuel Tanks, 250 barrels capacity.
25	Four (4) Engine package buildings 30 ft. long x 12 ft. wide x 12 ft. high, complete with access doors and 3/16" Crimp Walls where specified.

30 ft

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FABRICATION AND MAST – (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>
26	One (1) S.C.R./Air Compressor building 40 ft. long x 12 ft. wide x 12 ft. high, complete with access doors and 3/16" Crimp Walls where specified.
27	Enfab 152 ft 1200 k vertical Erect Mast.
28	Two (2) Rig Skidding Jack, including Claw bases and hydraulic Power Unit.
29	One (1) set of Trolley Beams for handling of the B.O.P. with two (2) 20-ton Plain Trolley Hoists.

John P.

CP

RIG-UP:

ITEM NO.

DESCRIPTION

1. STRUCTURAL AND MECHANICAL INSTALLATION

A. Drilling Package

1. Set and level master skid girders.
2. Align master skids and pin internal bracking and trusses
3. Set and secure active Mud Tanks (Quantity 4)
4. Place and secure the 1,600 H.P. Mud Pumps and the Centrifugal Pump skid with Supercharger Skids.
5. Install all interconnecting Mud Piping, Valves and Hoses
6. Locate and secure the Mud Treating Deck
7. Install all Mud Process Equipment
8. Set and secure the Drawworks
9. Install all flooring, handrails and stairs.
10. Secure the Drawworks Shed Wing
11. Position and secure the Drawworks and Rotary Drilling Unit.
12. Set and Pin the Mast in a down position.
13. Install all Walls and Roofs.
14. Set and connect all machinery and or components which affix to the substructure. Included but not limited to Blowout Preventer Handling system, Air Tuggers, Mud Gas Separator, Accumulator Unit and Choke and Kill Manifold.

Mike Jr

CS

RIG-UP:

ITEM NO. **DESCRIPTION**

1. STRUCTURAL AND MECHANICAL INSTALLATION

A. Drilling Package - (Continued)

15. Install substructure skidding Jacks and make the hook up to the Power source.
16. Locate and Pump the Drill Water and Cement Tanks.
17. Secure and Pump the Air Compressor, Mechanic and Electrical Workshops.
18. Raise the Mast to a full vertical position.
19. Install the B.O.P. Piping
20. Install Mousehold.

B. Crane Support Pedestal

1. Set and secure the Crane Support Beams, and Diesel Fuel Tanks.
2. Pin in place all sway braces.
3. Position and secure the generator packages and S.C.R. Compressor House (Quantity 4)
4. Install Crane Pedestal
5. Locate and set the cement unit, mix module and Reserve Tanks.

Nick Jk

W

RIG-UP:

ITEM NO.

DESCRIPTION

1. **STRUCTURAL AND MECHANICAL INSTALLATION**

B. **Crane Support Pedestal** - (Continued)

6. Set and secure the pipe ramp with handrails and stairs.
7. Pin the wireline spool and support to the substructure
8. Set the combination ramp and stair.

C. **Quarters' Package**

1. Set and secure the lower quarters support with Potable water Tanks and water-makers.
2. Set upper and intermediate quarters support.
3. Install all stairs, handrails, etc.

2. **CHECK-OUT**

A. Run all Engines for four hours continuous

B. Function test all components, including but not limited to:

1. Drawworks
2. Rotary
3. Mud Pumps
4. Air Hoist

John A.

AS

RIG-UP:

ITEM NO.

DESCRIPTION

2. CHECK-OUT - (Continued)

5. Rig skidding Jacks are all to be installed.
6. All tanks, with the exception of the cement system are to be filled with water and circulation test performed. All valves are to be utilized to check for proper routings, restrictions and leaks.
7. Run all Agitators during circulation test.
8. Check drip pans for fluid circulation and leaks.
9. Run test Air Compressor and all outlets.
10. Check S.C.R.
11. String up the Travelling Block and make at least two trips from the floor to the Crown.

3. RIG DOWN:

- A. All equipment is to be disassembled and prepared for shipment.
- B. Components where required will be spot blasted and painted.

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RIG-UP:

ITEM NO. DESCRIPTION

4. FABRICATOR FURNISHED ITEMS

1. Necessary manpower and equipment to set and secure components, including but not limited to Cranes, Slings and Hand Tools.
2. Fuel and lubricants to operate machinery.
3. Hydraulic fluid and lubricants to fill and test systems. (Machinery is to be complete with gear case lubricants which are needed, upon arrival in our yard).
4. Timbers and supports to store the equipment on.
5. Any necessary materials to complete the piping or connections of fabricated items. This is to include pipe, valves, fittings, couplings, etc.

5. FABRICATION

- A. Mud Tanks will be fit out with required rim and internal piping, including valves, fittings and connectors.
- B. Water and fuel tanks will receive required piping, including gauges, fittings and the mounting of Pumps.
- C. The bell nipple will be supplied complete with the flow and fill lines.
- D. Dual 5" Standpipes complete with Unions and Goosenecks.
- E. The high and low pressure lines will have termination points at each well centre to prevent excessive hoses being transported. We include with our proposal the necessary Jumper Hoses, Fittings and Ball Plugs.



RIG-UP:

ITEM NO. **DESCRIPTION**

5. **FABRICATION** - (Continued)

- F. One (1) complete Mud Manifold for 5" Dual Standpipes.

- G. One (1) Poor Boy Type Mud Gas Separator

- H. A 6" nominal Derrick vent line to extend to 10 ft. above the Crown.

- I. Necessary piping needed to facilitate the completed transfer of fuel, air and water.

- J. Piping for wash-down to terminate at the structure base for Some pre-designated interface point.

- K. Mud Chute for the Shale Shaker complete with waste line.

- L. Piping from the heat exchangers to the designated water source (piping is included for supply and return lines).

- M. Mounting brackets or space accommodations for the Mathey Wireline unit and the electric logging unit.

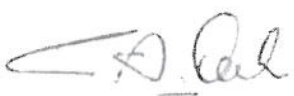
Walter H.

W

RIG-UP:

<u>ITEM NO.</u>	<u>DESCRIPTION</u>
5.	<u>FABRICATION</u> - (Continued)
Q.	The Driller's Doghouse located on the drill floor, will include a knowledge box, bench and two steel lockers.
R.	All necessary blocks, stops and fasteners needed to Properly secure each major components package.
S.	Fabricate Rathole and Mousehole Sleeves.

CONTRACTOR : WELL SERVICES PETROLEUM COMPANY LTD.

AUTHORISED SIGNATURE : 
C.A. BRASH - Chairman

DATE : February 22, 2006

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ATTACHMENT 2


EQUIPMENT SPECIFICATIONS

ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Type of Rig	<p><u>Platform Modular Drilling Unit</u></p> <p>Note: The maximum load the platform crane could lift is 25,000 lbs. Therefore the individual packages to RU the "Leap Frog" crane, described below, should not exceed 25,000 lbs.</p> <ul style="list-style-type: none"> - small-medium size rig capable of cased hole workovers, directional sidetracks and with some horizontal sections (1,000 - 3,000 ft.) - Rig could be packaged and moved with standard workboats (RD-RU) in +/-5 days. - Rig to be diesel operated - Rig supplier must provide 2 "Leap Frog" cranes (30-50 ton based on weight of all components to be lifted, including quarters) with 2 pairs of strong backs (mounting and support beams). 	Yes	Manitex ML-6400 Cranes 100 ft Lattice 48.32 Tons at 20 ft
Certification & Classification	<ul style="list-style-type: none"> - API Spec 4F - Trinidad Ministry of Energy 	Yes	Agreed

CONTRACTOR: WELL SERVICES PETROLEUM COMPANY LTD.

AUTHORISED SIGNATURE:  C.A. BRASH - Chairman

DATE: February 21, 2006





ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Heliport	Helideck to meet Trinidad's Ministry of Energy (MOE) and Civil Aviation Authority's (CAA's) requirements (copy of CAA requirement is attached). - Helicopter Type: Bell 212, 412, 422 (mainly used by company), however helideck should be able to accommodate potential landing of a Sikorsky S61, Super Puma, and AB 139 in case of visitors by non-company personnel (MOE, CAA, etc.) - Fixed Foam Fire Fighting System for Helideck - Minimum landing area dimensions: 50 x 50 ft.	Yes	Agreed
Life Capsules/Boats	- Life Capsules/Boats for a minimum of 110 persons	Yes	Two life capsules/Boats for 44 persons each 4 x 25 man survival rafts.
Maximum Well Depth (ft.)	- Total Depth: +/-10,000 ft. TVD, 13,000 ft. MD (approximately)	Yes	Rig capable of Drilling to 25,000 ft +

CONTRACTOR _____

AUTHORISED SIGNATURE: _____

C.A. BRASH - Chairman

DATE _____

February 21, 2006

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ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Loads w/Top Drive	<ul style="list-style-type: none"> - Static Hook Load (Working) - Rotary Load (Working) - Set Back Load (Working) - Derrick 	<ul style="list-style-type: none"> 600 Kips 400 Kips 300 Kips 800 Kips 	<p>Varco TDS4S 650 Tons HI 39,500K LO 61,800 Kips 500 Tons 650 Kips 1,200 Kips</p>
Drill String	<p>Drilling Tubulars. (All to Meet TH Hill DS-1, Level 5 Inspection Criteria). All equipment not in immediate use must be kept in rig contractor's yard.</p> <p><u>List - A</u></p> <ul style="list-style-type: none"> - 5" Drill Pipe - 10,000 ft. (w/TCS 8,000 Hard Banding), 19.5 ppf, S-135 with high torque connections. - 5" pup joints, two each 5, 10, 15, 20, 25 ft. for primary drill string and gravel packing space out. - 5" HWDP - 15 each - 8" DC-15 each - 1 fishing jar - 2 bit subs (bored through for float and 2 non ported) - Misc. X/O's to Sub-Contractors equipment - Handling Tools for all the above <p><u>List - B</u></p> <ul style="list-style-type: none"> - 3½" Drill Pipe - 15,000 ft. (w/TCS 8,000 Hard Banding), 13.3 ppf, S-135 with high torque connections. - 3½" pup joints, two each 5, 10, 15, 20, 25 ft. for primary drill string and gravel packing space out. 	<p>Yes</p>	<p>Agreed, New Tubulars will be supplied But standard connections NO High Torque</p>

CONTRACTOR

AUTHORISED SIGNATURE:



C.A. BRASH - Chairman

DATE

: February 21, 2006




ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Drill String (Continued)	<p><u>List - B</u> - (Continued)</p> <ul style="list-style-type: none"> - 3½" HWDP - 15 each - 4-3/4" DC - 15 each - 1 fishing jar - 2 bit subs (bored through for float and 2 non ported) - Misc. X/O's to Sub-Contractors equipment - Handling Tools for all the above <p><u>List - C</u></p> <ul style="list-style-type: none"> - 2-7/8" Drill Pipe - 3,000 ft. (w/TCS 8,000 Hard Banding), 13.3 ppf, S-135 with high torque connections. - 2-7/8" pup joints, two each 5, 10, 15, 20, 25 ft. for primary drill string and gravel packing space out. - Handling Tools for all the above 		Agreed
			Agreed

WELSH INTERNATIONAL SERVICES, INC.

CONTRACTOR



AUTHORISED SIGNATURE:

C.A. BRASH - Chairman

DATE

: February 21, 2006




ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Derrick	<ul style="list-style-type: none"> - Derrick capacity - 800 Kips - Racking capacity - 300 Kips - Ability to handle triple stands of Drill Pipe / other tubulars as necessary. 	Yes	1,200 Kips 500 Kips Triples API RP4F 105 MPH with full set back
Drawworks	<ul style="list-style-type: none"> - Should be able to handle the loads indicated. - Electric power driven 	Yes	National 1625 DE 3000HP
Top Drive	<ul style="list-style-type: none"> - Static Hook Load (Working) - 600 Kips - Rotary Load (Working) - 400 Kips - Torque rating of 35,000 ft.-lbs. Minimum at 120 - 160 rpm. - Upper and lower IBOP, and Integral Swivel. 	Yes	Varco TDS4S 650 Tons HI 39,500# LO 61,800# 205 RPM 130RPM
Rotary Table	<ul style="list-style-type: none"> - Hydraulic - 27 1/2" - Torque rating of 35,000 ft.-lbs. Minimum at 120 - 16- rpm. 	Yes	Electric driven 37 1/2" Rotary Unit 1000HP 500Tons, National
Pipe Spinner	<ul style="list-style-type: none"> - Capable of spinning up all Drill Pipe sizes and connections provided by Contractor 	Yes	Varco SSW40
Iron Roughneck	<ul style="list-style-type: none"> - Capable of making up and torquing all Drill Pipe sizes and connections to be provided by Contractor. Maximum versatility in vertical and horizontal movement should be considered. 	Yes	Hawkjaw
Mouse Hole	<ul style="list-style-type: none"> - Operating range from 2-7/8" - 7" diameter 	Yes	

WASH REPUBLIC COMPANY, INC. COMPANY, LTD.

CONTRACTOR


AUTHORISED SIGNATURE: C.A. Brash
 C.A. BRASH - Chairman

DATE: February 21, 2006




ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Rotating Mouse Hole	- To provide the capability of making up stands of drill pipe off line.	Provides advantage to contractor	Will source equipment
Storage Racks for Subs and ancillary tools	- To provide for proper storage of subs, slips, and other ancillary equipment.	Yes	Agreed
Driller's Cabin	- Fully enclosed and protected Driller's Cabin with good all round visibility of derrick and rig floor	Yes	Agreed
Welding Shop	- Contractor to provide welding shop designed and located to meet acceptable standards.	Yes	Agreed
Utility Winches	- 2 x Utility Winches 12 Kips each + 2 dedicated man riding (250 kg each)	Yes	Agreed
Mud Pumps	- 2 (min.) x 5,000 psi Triplex Pumps with plungers and high pressure liners for 800 gpm.	Yes	Skytop Brewstar B1600T Triplex (3) 517 GPM @5000#
Quarters / Offices	Accommodations - fully Air Conditioned - 90 persons (exclusive of hospital). Two rooms should be set up with the flexibility for female occupancy as the need arises. - 4 x 2 man rooms for COMPANY personnel. - 2 COMPANY Offices for two persons each w/ 3 LAN Connections. - Service Company Room for 6 persons - 6 LAN Connections. - Hospital (2 persons)	Yes	Agreed

CONTRACTOR _____


AUTHORISED SIGNATURE:  C.A. BRASH - Chairman

DATE:  February 21, 2006



ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Quarters / Offices (Continued)	<ul style="list-style-type: none"> - Recreation Room (Non Smoking) - Smoke room/area - Gymnasium fully equipped for min. 4 people, (min. 2 x treadmills + 2 x bicycles) training at the same time. - Changing rooms <p>Note: The crew quarters and helideck should be arranged to facilitate removal of one segment of the crew quarters and the correspondence segment of the helideck, as "Leap Frog", during mobilization of rig from one platform to another.</p>		Agreed
B.O.P. Control Panel	Master Control manifold (Main unit), Company Man Office, Toolpusher Office, Driller's remote panel, Emergency control room and evacuation route.	Yes	Agreed

CONTRACTOR WELLS SERVICE COMPANY LTD.

AUTHORISED SIGNATURE: 
C.A. BRASH - Chairman

DATE : February 21, 2006





ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Pressure Gauge Readout	Digital chart read out for the range of pressures expected to be seen on the main pressure gauges.	Yes	Agreed
13-5/8" B.O.P. Stack, 5K psi (H2S Trim and Synthetic based Mud) Trimmed	<ul style="list-style-type: none"> - Single Variable - 3K psi Annular Preventer - 1 Bore 5K psi Ram Preventer - 1 single Blind/Shear - 5K psi Ram Preventer - 2 Choke and 2 Kill Lines (1 set Choke/Kill Lines below lower most rams and 1 set Choke/Kill lines above lower most rams). - 2 Drilling spools with two 3-1/16" side outlets 5K psi. - 1 single variable bore, 5K psi Ram Preventer - 2 sets 4" x 7" VBR - 2 sets 3 1/2" x 5" VBR 	Yes	Hydrill GK12 900 1 single Cameron Type U 13-5/8" 5000# CSO 1 Double Cameron Type U 13-5/8" 5000# with VBR rams
Choke and Kill Lines	<ul style="list-style-type: none"> - Choke/Kill Line Valves (H2S Trim) - One 3-1/16", 5K psi manual valve each on choke and kill each line. - One 3-1/16", 5K psi hydraulic controlled valve each on choke and kill line. 	10K	Agreed

CONTRACTOR

AUTHORISED SIGNATURE:



C.A. BRASH - Chairman

DATE

February 21, 2006




ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Choke and Kill Manifold, 5K (H2S Trim)	<ul style="list-style-type: none"> - Manifold to have one chemical injection point upstream of Choke with 5K needle valve. - Two adjustable chokes, 5K psi - Two manual chokes, 5K psi - One 3-1/16", 5K connection to tie back to HCR on the B.O.P. stack. - One 3-1/16", 5K connection to tie back to the kill line on the B.O.P. stack. - One 3-1/16", 5K connection to tie back to stand pipe manifold. - One 3-1/16", 5K spare line (for pressure bleed down, etc.) - One 5K pressure gauge each located on the various sections of the manifold. - One 5K valve each located on the various sections of the manifold for isolations. - Two pressure sensors to transmit pressures to the choke panel. 	10K	Agreed
Standpipe Manifold, 5K psi	<ul style="list-style-type: none"> - Two 5K psi Flowlines manifolded for use of one and/or both and with tie back connections for use of one and/or both mud pumps. - One 5K connection for tie back to the cementing head. - One 5K lines connection for tie back to contractor's cementing unit. - One 5K connection for tie back to the choke manifold. - One 5K pressure gauge - One 5K pressure sensor to transmit Standpipe pressure to the choke panel. 		Agreed

CONTRACTOR _____

AUTHORISED SIGNATURE: _____

C.A. BRASH - Chairman

DATE: *Wade AS* February 21, 2006

CB

ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Well Control Instruments	- Pressure and Temperature Sensors at BOP, upstream of chokes, and downstream of chokes	Yes	Agreed
Full Opening Safety Valves	- Two each Full Opening Safety Valves, 5K psi with matching connection for each size/type of drill pipe and/or with the appropriate crossovers	10K	Agreed
IBOP's	- Two each IBOP's, 5K psi with matching connection for each size/type of drill pipe and/or with the appropriate crossovers.	10K	Agreed
Accumulator & BOP Closing Unit	An Accumulator with Controls to meet API RP 53 standards.	Yes	Agreed
Capacities	<ul style="list-style-type: none"> - Bulk Barite - 2,000 cu.ft. - Bentonite - 1,000 cu. ft. - Bulk Cement - 2,000 cu.ft. - Active Mud - 1,200 bbls. - Mud Processing - 200 bbls. - LCM - 100 bbls. - Stand Trap - 30 bbls. - Potable Water - 1,000 bbls. - Fuel Oil - 200 bbls. - Agitators in all Tanks for liquid mud storage Note: (Must have different type of connection on each bulk system connection and also colour code).	Yes	Agreed Bulk cement 3000 cuft Active Mud 1080 bbls Reserve Tank 350 bbls Fuel 450 bbls Agitators 8 x 10 HP

CONTRACTOR _____

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 C.A. BRASH - Chairman

DATE:  : February 21, 2006



ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Hoppers (2) and accessories	<ul style="list-style-type: none"> - Bulk handling systems for sack handling/cutting, 1 for chemicals, 1 for bulk and 1 for storage) - Barrel handling skid - Caustic/corrosive chemical mixing unit 	Yes	Agreed
Mixing Pumps	3 x Mixing Pump	Yes	Agreed
Poor Boy Degasser	Poor Boy Degasser to cover all Well Control operations requirements.	Yes	Agreed
Mud Gas Separator	Mud Gas separator to meet all operations requirements (1,000 gpm min.)	Yes	Agreed
Mud Lab	<p>NOTE:- All solids control equipment (main ones listed below) will be covered and provided by a separate TFM (total fluids management) contractor. However, rig should have areas marked and provided to accommodate all the equipment.</p> <p>Accommodation for mud engineer and all lab equipment.</p>	Not Req'd. from Rig Supplier	WSPCL can supply the following equipment to be serviced and maintained by REPSOL YPF at their cost. (4) Derrick FLC 2000 shakers (2) 16x4" hydro cyclons 1000GPM (2) Sweco SC4 Centrifuges (1) Derrick Vacu flo 1000 degasser (1) Derrick 2E48-120-4TA Mud Cleaner (2) 50 cu ft serge tanks
Shale Shakers	3 x Linear motion Scalping Shakers inclusive of screens (12 - 50 mesh size). Bottom Shakers at 50 - 210 Mesh.		

CONTRACTOR

WSPCL (WSPCL) APPROVED BY WSPCL

AUTHORISED SIGNATURE:



C.A. BRASH - Chairman

DATE


: February 21, 2006




ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Mud Cleaner	800 gpm capacity (20 x 4" Cones)		
Desander	Capacity - min. 1,000 gpm.		
Desilter	Capacity - min. 1,000 gpm.		
Centrifuge	2 x Centrifuge (1 for high speed/high volume, 1 with variable speed).		
Cuttings Handling	Ability to reclaim LCM and reintroduce into active system.		
Trip Tank	One 25 bbl. Tank with two Pumps	Yes	Agreed 50 bbl
Stripping Tank	One 10 bbl. Tank	Yes	Agreed
Mud Bucket	Sealed mud bucket for catching mud when breaking out wet pipe. Must have connections for directing mud to active mud system.	Yes	Agreed
Weight Indicator and DC (dust collectors)	Cement, Barite, Bentonite and Bulk Mud Surge Storage Tanks to be fitted with weight indicators and dust collectors (DC-pressurized pods to return product to main storage and backload).	Yes	Agreed
Locations of DC Systems	Dust Collectors to be located on the separate bulk transfer vent lines. Also on the separate lines for Brimes, WBM, etc.	Yes	Agreed

CONTRACTOR WILSON DRILLING & MUD SERVICES COMPANY LTD

AUTHORISED SIGNATURE: 
 C.A. BRASH - Chairman

DATE  : February 21, 2006



ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Hydraulic Bolt Torque	1 hydraulic bolt machine for tightening bolts on risers/flanges, BOP stacks, etc.	Yes	Agreed
Spares	Contractor should seriously consider the level of essential spares to be carried in inventory to enable Contractor to properly maintain its equipment and run an efficient operation.	Yes	Agreed
Bit/Stabilizer Gauges, Vernier Calipers	All hole sizes as per Well schematics	Yes	Agreed
Drilling Instrumentation	<ul style="list-style-type: none"> - Weight Indicator, Torque, Pump Pressure, Top Drive / Rotary Table RPM / Torque. - Recording Device (Strip Chart & Electronic) for Drilling Parameters. - PVT system for mud pits, mud process pits, trip tank. - Mud/gas separator pressure - Choke Manifold pressure - Kill Manifold pressure - Tong Torque - Mud Density/Temperature - Remote control panel for hydraulic choke 	Yes	Agreed
Integrated Rig Control System	<ul style="list-style-type: none"> - System shut down - Automatic and manual rig control functions including process measurements, data acquisition, limit checking and logic/continuous control. - Fire alarm system - Gas Detection & Alarm system built into the accommodation. - BOP control system. 	Yes	Agreed

WEL SPAC SERVICES COMPANY LTD.

CONTRACTOR

C.A. Brash

AUTHORISED SIGNATURE: _____

C.A. BRASH - Chairman

DATE

February 21, 2006

Wade

CB

ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Air Supply	- Rig Air Compressor System (200 psi) with Air Dryer compatible with bulk handling and transfer system	Yes	Agreed
Water Makers	500 barrels per day (must have different type of connection compared to the bulk system connections and also to be colour coded).	Yes	Agreed
Sewage Treatment	Capacity in excess of 100 people and must be able to monitor the sewage TSS, pH and Cl content.	Yes	Agreed
Drip Pans (Spill Containment)	Zero discharge of hydrocarbons, hydrocarbon base chemicals, and chemicals and materials as per Company's and MOE's (Ministry of Energy's) HSE guidelines. The drill floor, rotary table, drawworks, and helideck must be fitted with drip pans.	Yes	Agreed
Third Party Services	Rig to provide air, potable water, sea water, power and instrumentation cables (with junction boxes) for the following services: <ul style="list-style-type: none"> - Mud Logging - Electric Logging - MWD / LWD and Directional Services - Cementing Unit 10,000 psi - Space for mud lab equipment and A/C Unit. Fume cupboard installed inside the mud laboratory.	Yes	Agreed

WELL SERVICES LTD. (Pty) Ltd. (Incorporated in South Africa)

CONTRACTOR _____

AUTHORISED SIGNATURE:  _____
 C.A. BRASH - Chairman

DATE:  : February 21, 2006



ITEM	DESCRIPTION	MINIMUM REQUIREMENTS	CONTRACTOR'S OFFER
Hand Radios	6 x with chargers and headsets	Yes	Agreed
Head Sets for Radios	1 - Crane Operator 1 - Banksman 1 - SCBSs (self-contained breathing apparatus)	Yes	Agreed
Communication /Computer	- Offices pre-wired for LAN connections in all offices including the conference room - Internal Communications / PA - Offices Pre-wired for Operators Satellite Phone System.	Yes	Agreed
Ancillary Equipment	- Contractor should consider including other equipment either necessary but not listed here or other equipment that would enhance the HSE and operations aspects of executing its work.	No But encouraged	Agreed

CONTRACTOR WELL SERVICES INTERNATIONAL LTD.

AUTHORISED SIGNATURE: 
C.A. BRASH - Chairman

DATE : February 21, 2006