**Drilling and Ra/Rc**

**PREVIOUS EXPERIENCES:**

Development of 01 Exploration Project and 02 Development Projects in La Serranía Sur de Bolivia.

**AVAILABLE SERVICES:**

We currently have a 2000HP Drill Drill Drill capacity to perform:

* Original drilling of wells up to 22,000 feet of Depth Measured.
* Rehabilitation and Repair of Oil and Gas Wells in General.

**EQUIPMENT DESCRIPTION:**

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| **LIFTING SYSTEM** | | |
| **EQUIPMENT** | **DESCRIPTION** | **DETAIL** |
| MALACATE | MARK | BOMCO |
| MODEL | JC-70DB |
| POWER (HP) | 2000 |
| CAPACITY (LB) | 1300000 |
| GUAYA DIAMETER (IN) | 1.5 |
| BRAKE TYPE | HYDRAULIC |
| WEIGHT (LB) | 102820 |
| WORKING HOURS | 4320 |
| MALACATE MOTORS | AMOUNT (No) | 2 |
| MARK | CHANGQIAN |
| MODEL | YJC800 |
| POWER (HP) | 1080 |
| VOLTAGE (VAC/VDC) | 600 |
| NOMINAL AMPERAJE (AMP) | 956.2 |
| WEIGHT (LB) | 7300 |
| CABRIA | TYPE (Compliant with API 4F standards) | K |
| MODEL | JJ555/46K |
| CAPACITY (LB) | 1300000 |
| CABRIA HEIGHT (FT) | 152 |
| WEIGHT (LB) | 188000 |
| MAXIMUM PROFUNDITY TO DRILL (FT) | 22966 |
| TRAVELER BLOCK | MODEL | YC 585 |
| CAPACITY (LB) | 1433004 |
| WEIGHT (LB) | 19401 |
| GUAYAS NUMBERS | 6 |
| GUAYA DIAMETRO (IN) | 1.5 |
| CORONA | MODEL | TC585-1 BLOCK. |
| CAPACITY (LB) | 1300000 |
| WEIGHT (LB) | 21826 |
| GUAYAS NUMBERS | 7 |
| GUAYA DIAMETRO (IN) | 1.5 |
| GANCHO | MODEL (API Specification 8A) | DG-675 |
| CAPACITY (LB) | 1653467 |
| WEIGHT (LB) | 13587 |
| PERFORATION WIRE | TYPE | 6X19S IWRC EIPS |
| DIAMETER (IN) | 1,1/2 |
| LENGTH (FEET) | 5000 |
| SUBSTRUCTURE | TYPE | DZ585/10.5-S13H |
| EFFECTIVE WORKING HEIGHT (FT) | 34 |
| SETBACK CAPACITY (LB) | 494580 |
| MAXIMUM CAPACITY (LB) | 1300000 |
| TOP DRIVE | MARK | BPM |
| MODEL | DQ70BSC |
| CAPACITY (TON) | 500 |
| PERFORATION DEPTH (FOOT) | 22966 |
| MAXIMUM STATIC CHARGE (LB) | 1000000 |
| PERFORATION SPEED RANGE (RPM) | 0-220 |
| OPERATING TORQUE (LB/PIE) | 11240 |
| NOMINAL WORKING PRESS (PSI) | 5000 |
| POWER (HP) | 400 X 2 800 |
| NOMINAL REVOLUTION (RPM) | 1150 |
| WEIGHT (TON) | 12 |
| WORKING HOURS | 2160 |
| **ROTATION SYSTEM** | | |
| **EQUIPMENT** | **DESCRIPTION** | **DETAIL** |
| ROTARIAN TABLE | MODEL | ZP375 |
| MARK | BOMCO |
| TORQUE MAXIMO (NM) | 32362 |
| MAXIMUM STATIC CHARGE (LB) | 1300000 |
| MAXIMUM ROTATION SPEED (RPM) | 0-300 |
| APERTIRA DIAMETER (IN) | 37.5 |
| ROTARY TABLE HEIGHT (FT) | 34 |
| SWIVEL | MODEL | SL 450-5 |
| MARK | BOMCO |
| MAXIMUM STATIC CHARGE (LB) | 1000000 |
| MAXIMUM ROTATION SPEED (RPM) | 300 |
| MAXIMA WORKING PRESS (PSI) | 5000 |
| CENTRAL TUBE CONNECTION (IN) | 6-5/8 REG-LH |
| CONNECTION FOR KELLY (IN) | 6-5/8 REG-LH |
| NECK CONNECTION (IN) | LP 4 8TPI |
| WEIGHT (INCLUDING GIRADOR) (LB) | 7700 |
| QUADRANT(KELLY HEXAGONAL) | AMOUNT (No.) | 2 |
| SIZE (IN) | 5.50 - 3.50 |
| LENGTH (FT) C/U | 45 |
| TOP CONNECTION (IN) | 6 5/8 REG (BOX) |
| DIAMETRO (IN) LOWER CONNECTION | 4.50 IF AND 3.50 IF (PIN) |
| INNER DIAMETER (IN) | 4 |
| ROTARIAN WAY | AMOUNT (No.) | 2 |
| MARK | BPM |
| ID/OD (IN) | 5.25 |
| CONNECTION (IN) | 5.00 LP |
| WORKING PRESS (PSI) | 5000 |
| TEST PRESS (PSI) | 4000 |
| LENGTH (FT) C/U | 62 AND 75 |
| **CIRCULATION SYSTEM** | | |
| **EQUIPMENT** | **DESCRIPTION** | **DETAIL** |
| PUMPS | AMOUNT (No.) | 3 |
| MARK | BOMCO |
| MODEL | F-1600 |
| TYPE | PISTON PUMP |
| POWER (HP) | 1600 |
| MAXIMUM WORK PRESS (PSI) | 5000 |
| STROKES (SPM) | 120 |
| AMPERAJE (AMP) | 1383 |
| WEIGHT (KG) | 27000 |
| WORKING HOURS | 2880 |
| ENGINES ATTACHED TO PUMPS | AMOUNT (No) | 3 |
| MARK | CHANGQIAN |
| POWER (HP) | 1632 |
| VOLTAGE (VAC/VDC) | 600 AC |
| AMPERAJE (AMP) | 1382.8 |
| VOLTAGE | 600 |
| MOD TANKS | AMOUNT (No.) | 6 |
| VOLUMEN (BLS) | 2236 |
| VOLUMEN TREATMENT TANK ( BLS) | 236 |
| VOLUME SUCTION TANK (BLS) | 400 |
| VOLUME MIXING TANK (BLS) | 400 |
| INTERMEDY TANK (BLS) | 400 |
| RESERVE TANK 01 VOLUME (BLS) | 400 |
| RESERVE TANK 02 VOLUME (BLS) | 400 |
| **POWER GENERATION SYSTEM** | | |
| **EQUIPMENT** | **DESCRIPTION** | **DETAIL** |
| MOTORS | AMOUNT (No) | 4 |
| MODEL | CAT3512B |
| FUEL | DIESEL |
| MARK | CATERPILLAR |
| FUEL | DIESEL |
| HP | 1475 |
| AUXILIARY ENGINE | MODEL | 3406 DITA |
| WORKING HOURS | 2480 |
| GENERATORS | MODEL | SR4B |
| AMOUNT | 4 |
| POWER (KVA) | 1400 |
| POWER (KW) | 980 |
| FORCE HOUSE | AC /VFD | VFD |
| VOLTAGE (VAC) | 600 |
| FREQUENCY (Hz) | 60 |
| MARK | BOMAY |
| **WELL SAFETY/CONTROL SYSTEM** | | |
| **EQUIPMENT** | **DESCRIPTION** | **DETAIL** |
| BOP RAM SENCILLO | MARK | HRSB |
| WORKING PRESSURE (PSI) | 10000 |
| CONNECTION DIAMETERS (IN) | 13,625 |
| BOP RAM DOUBLE | MARK | HRSB |
| WORKING PRESSURE (PSI) | 10000 |
| CONNECTION DIAMETERS (IN) | 13,625 |
| MARK | HRSB |
| MODEL | (D) FH35-35/70 |
| WORKING PRESSURE (PSI) | 5000 |
| CONNECTION DIAMETERS (IN) | 13,625 |
| BOPANULAR(DIVERTER) | MARK | HRSB |
| WORKING PRESSURE (PSI) | 2000 |
| CONNECTION DIAMETERS (IN) | 21.25 |
| LATERAL VALVE OF THE DIVERTER | MARK | HRSB |
| CONNECTION DIAMETERS (IN) | 10.75 |
| MULTIPLE - MANIFOLD | WORKING PRESSURE (PSI) | 10000 / 5000 |
| MAIN DIAMETER (IN) | 4,0625 |
| MAGUERA COFLEX | TARABAJO PRESS (PSI) | 10000 |
| MAIN DIAMETER (IN) | 4,0625 |
| PREVENTOR UNIT | MODEL | FKQ1280-7 |
| WORKING PRESSURE (PSI) | 3000 |
| DRILLING SPOOLS | MARK | HRSB |
| WORKING PRESS (PSI) | 2000 / 5000 |
| CONNECTION DIAMETERS (IN) | 21-1/4" / 13 5/8" |
| LATERAL OUTPUTS | 4 1/16 2M / 4 1/16 5M |
| TUBE RAMS | 3-1/2 IN | 1 SET |
| 5-1/2 IN | 2 SETS |
| 5 IN | 2 SETS |
| 6-5/8 IN | 1 SETS |
| 7 IN | 1 SETS |
| 9-5/8 IN | 1 SETS |
| CUT | 1 SETS |
| CIEGO | 1 SETS |
| MULTI RAMS 2-7/8 IN - 5IN | 2 SETS |
| HYDRAULIC HCR VALVE | WORKING PRESS (PSI) | 10000 |
| CONNECTION DIAMETERS (IN) | 4,0625 |
| WORKING PRESS (PSI) | 10000 |
| CONNECTION DIAMETERS (IN) | 2,0625 |
| MANUAL CHOKE VALVE | WORKING PRESS (PSI) | 10000 |
| CONNECTION DIAMETERS (IN) | 4,0625 |
| WORKING PRESS (PSI) | 10000 |
| CONNECTION DIAMETERS (IN) | 2,0625 |
| **ACCESSORIES / OTHER** | | |
| **EQUIPMENT** | **DESCRIPTION** | **DETAIL** |
| DRILLING TUBE | DIAMETRO (IN) | 5 |
| LENGTH (FT) | 6750 |
| THREAD TYPE | HT 50 |
| DIAMETER (IN) | 5 |
| LENGTH (FT) | 14520 |
| THREAD TYPE | IF |
| DIAMETRO (IN) | 5,875 |
| LENGTH (FT) | 19110 |
| THREAD TYPE | FH |
| DIAMETER (IN) | 3.5 |
| LENGTH (FT) | 7290 |
| THREAD TYPE | IF |
| DIAMETER (IN) | 3.5 |
| LENGTH (FT) | 8880 |
| THREAD TYPE | VX 38 |