



Black Spruce Exploration – Oil Rig Technical Specifications

Corner Brook, Newfoundland – March 4, 2013 – The oil rig that will be used by Black Spruce Exploration (BSE) in the Green Point Shale is a Superior 700 UE D/D Drawworks 800 model that has the following features:

- Mast (12,600ft) – Dreco 133' x 428,000 18.5ft leg spread, gross nominal capacity of 600,000 lbs., Crown comes with five 42" x 1-1/8" sheaves, one 50" fastline sheave, tong buckets, lighting, racking capacity of 140 stands 4½ D.P. Mast comes with National 250-Ton block-hook combination 5-sheave, 300T national swivel.
- Motor - TESCO 250-ton model 250-HMI. Electric driven hydraulic power unit and 250-ton Top Drive complete with track and elevator links
- Substructure – Dreco Sling-Shot Substructure floor height 16'7", under Rotary Beams height 14'3" with Hydraulic Skidding System comes with two Lantec hydraulic winches, 1-1/8" substructure lines, hydraulic operating system mounted in Hydraulic Power Unit, winches operate 8-line (four sheaves) in each sub-base. Substructure comes with Derrick Stand 8' x 10' x 21'.
- Skidding System – Hydraulic House complete with Tank, 100 HP electric motor and systems controls, four 55' skids 12" tall with four hydraulic cylinders with "locking dogs" for rig skidding set on I-beams and 16" slotted top beam.
- Generators – Three Caterpillar D-398 TA diesel engines (HRs. 360, 620, 2692), Kato generators, 3ph, 60 Hz, Lister cold start, air volume tanks. All above mounted on three individual skidded houses with overhead lighting and sound attenuated walls.
- SCR House – Ross-Hill model 1400 3x3 bay SCR system 600 volt, 1600 amp system, dual a/c units, overhead lighting, Allen-Bradley receptacles, all above mounted on 3-runner oilfield skid.
- Mud Pumps – Two Honghua H&H 1000 HP Triplex Mud Pumps p/b GE 752 traction motor, pulsation dampeners, strainers, reset/relief valves, belt driven, parts boxes, overhead lighting, Roughneck heaters, pressure gauges, charging pumps. All above mounted in two-sided houses with 3-runner oil-field skids c/w loading hitches.
- BOP's/Closing Unit Housing/Chokes and Hoses – Hydril 11" x 5M Flange x Flange Double, comes with 3-1/16" side outlets, comes with CSO and 4-1/2" Rams. Texas Topper 11" x 5M Annular comes with studded top flanged bottom. Valvcon 4-Station 135 gal closing unit dual air over hydraulic, dual air volume tanks, two Lister air pumps p/b electric motors, tool house, all above mounted on 8'6" W x 34' L skidded house. 3 1/8" 5M X 4 1/16" 5M Dual Manual Choke Manifold with 2-1/16" 5M Mud Gauge Outlet.



- Mud System – Two Tank 650 BBL mud system mounted on triple runner oilfield skid with built-in stairs, hand rails and explosion proof lighting. System includes Mud House, Water Tank and Fuel tank, Mixing Hopper, 50 HP electric motors, (Baker SPD) centrifugal pumps, five HP mud agitators, Allen-Bradley switchgear, eyewash station, two Derrick FLC 503 Shakers, one 10” Swaco Desander and ten 4” Swaco Desilters
- Water Tank – 10’ 6” tall x 40’ long open top water tank 350 BBL comes with steam lines, stairs.
- Fuel Tank – 10’ 6” tall x 42’ long, 12,500 gallon square (curved bottom) diesel tank comes with stairs, dump valves, site glass, painted safety red.
- Pipe Collars – 238 Joints (7,110ft) Drill Pipe 4-1/2” Grade X-95, G-105 16.60 #/ft hardbanded, placed in four Pipe tubs, six sets pipe racks.

Commenting on the oil rig, Mark Voorhies, executive vice president, Operations for Black Spruce Explorations, states: “We have had several modifications made to this unit in order to make it suitable to the climate of Western Newfoundland. It’s tested and ready to go now.”

To see photos of the Superior 700 UE D/D Drawworks 800 model oil rig, visit <http://www.blspexp.com/newsmedia/photos.htm>.

For further information on the oil rig and Black Spruce Exploration, visit www.blspexp.com or contact...

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About Black Spruce Exploration Corp.

Black Spruce Exploration, with offices in Calgary, Alberta, St. John’s and Corner Brook, Newfoundland, is an exploration and production company with property rights, licenses and interests in the province of Newfoundland.

