

Property & Business Interruption -Underwriting & Claims

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ENERGY SECTOR LOSSES

- SECTOR COVERED
 - > OIL & GAS
 - POWER GENERATION

OIL AND GAS

- EXPLORATION
- OPERATING WELLS
- PURIFICATION
- TRANSMISSION
- REFINING

RISK COVERED | OIL - GAS EXPLORATION

• BLOW OUT OF WELLS:

Where a Well cannot be controlled with the means of well flow control equipment i.e. B.O.P's

• UNDERGROUND BLOWOUT:

Where flow from one zone to another zone via the bore of well and resulting in it's flow which cannot be controlled with the help of control equipment.

RISK COVERED | OIL - GAS EXPLORATION

• REMEDIES:

Such cases usually result in cementing the hole and in losing the hole/well.

Drilling of Relief Well.

• CONSEQUENCE:

Cost of regaining control.

Cost of Relief Well.

Cost of Re-drill to the same level where the loss occurred.

COMPLETION DIAGRAM



13" 5/8 R.T. COMPLETE POP STACK, 16.00 FT TOP 12.50 ANNULAR PREVENTER TYPE D 툻 GROUND LEVEL 25.0 FT BOTTOM. 15.70 FT 1133 UPPER RAMS 4.80 Å. 17.55 FT PHEAR\$ RAMS. 19.19.55 FT DRILLING SPOOL 13"5/8 X 10908 PSI CHOKE 2.00 ft 乏 4*1/16 10K ΞD E LOWER RAMS 24.30 FT <u> 8x 159</u> **BX 159** 12"1/4 PHASE 13'5/8 X 10000 PSI 2 5 BX 160 BX 160 LOCK 29.60 FT_3L_5K 0.43 ft. ----**BX 160** 1.521 Convertere 13'5/8 X 6000 PS! -橐 **L** 围 R 74 2.0 ft R 74 20"3/4 X 3000 PSI 0.02.11 2.08ft OP OF DOLLARS SELECTION ξ. 술 🚧

OPERATING WELLS

- Usually the Christmas tree comprises of well control valves
- Both above cases (Exploration & Operational) can result in:

Control of Well

Pollution Claims

- Due uncontrolled emission of Gas
 - I. Flow of oil
 - II. Flow of water

LOSS HISTORY OF SOME MAJOR LOSSES ATTENDED IN OIL & GAS SECTOR

- Fire Loss at the Fuel Refinery.
- Fire Loss at Lube Building Plant of an OMC
- Flood Loss at various locations of Gas Pipeline.
- Flood loss of various Installations / Terminals due to major floods of 2010.
- Fire Loss at Compression Station.

LOSS HISTORY OF SOME MAJOR LOSSES ATTENDED IN OIL & GAS SECTOR

- Gas Compression Expansion Project.
- Turbine damage during Commissioning.
- Breakdown of valve of Pindori Well No.1
- Blowout of Pindori Well No.3
- Various losses of installation / Gas wellhead at Gas fields.
- Damage to multi stage compressor due to failure of blades.

POWER GENERATION

- POWER PLANT OPERATION
- HYDEL GENERATION
- THERMAL GENERATION
- STEAM TURBINES
 - ➢ GAS TURBINES / COMBINED CYCLE
 - INTERNAL COMBUSTION (ENGINE BASED)

LOSSES IN THE POWER GENERATION UNITS

- Fire Losses to Air Filter Units during constructions.
- Breakdown Losses of Generating Transformers.
- Fire during commissioning.
- Arcing and contamination of Generator.
- Breakdown of Steam Valve.

LOSSES IN THE POWER GENERATION UNITS

- Turbine Bearing Failure
- Various Losses to Turbo Chargers of varying intensities
- Breakdown of Generators.
- Some of these have resulted in substantial consequential loss claims.
- Importance of VAR in a loss.

CASE HISTORY

- Loss due to fire at an Air Filter Unit, which also resulted in DSU during construction.
- Loss due to breakdown of Main Steam Valve.
- Loss due to breakdown of Generating Transformer.
- Loss due to Turbo Charger.

THANK YOU