

Cased hole

ASIM Wireless Telemetry Systems

SCOPE OF APPLICATION

- Providing frac and multi-stage frac fleet with the system of monitoring via wireless telemetry
- Monitoring the development of oil and gas fields via wireless telemetry in oil and gas wells with maximum pressure up to 100 MPa and temperature 173°C

CHALLENGES SOLVED

- Field development monitoring of each producing formation, frac and multi-frac control
- Ensuring production profitability by decreasing expenses on current monitoring
- Real-time measurements of bottomhole pressure, production rate, temperature, and moisture content for each producing formation

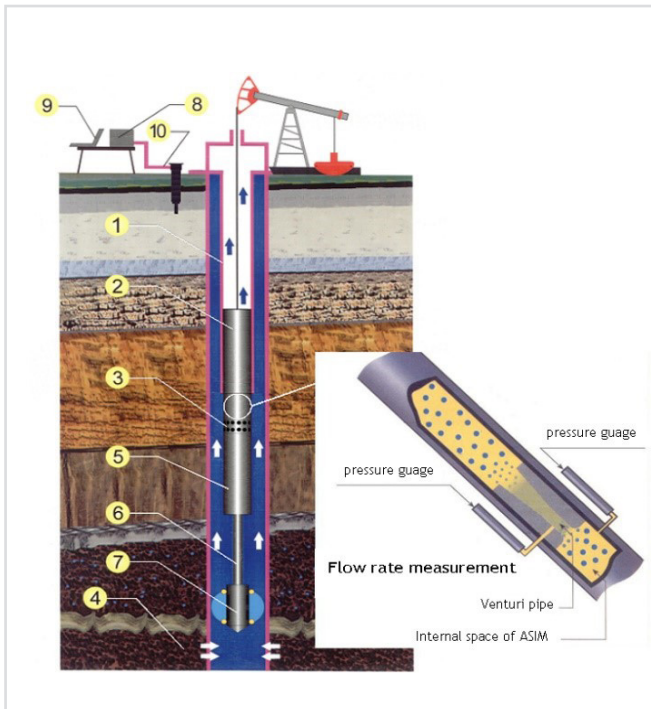
ASIM SYSTEM SPECIFICATIONS

Excessive pressure measurement range	0–25 MPa/ 0-3626 psi
Basic relative accuracy of excessive pressure measurement	0,25 %
Temperature measurement range	10–80°C /32-176°F
Flowrate measurement range	3–100 m3 / day / 283-3530 ft3/day
Water cut measurement range	40–100 %
Basic relative accuracy of flowrate measurement	8 %
Pressure resolution	0,02 MPa
Temperature resolution	0,03°C
Tool housing diameter	90 mm/ 3.54 in
Continuous operation time from in-house power supply with the data transfer frequency of 2 times a week , days	500
Length with spacer, no less than, mm	7000/ 276 in
Total weight of downhole equipment, kg	20/ 44.1 lb

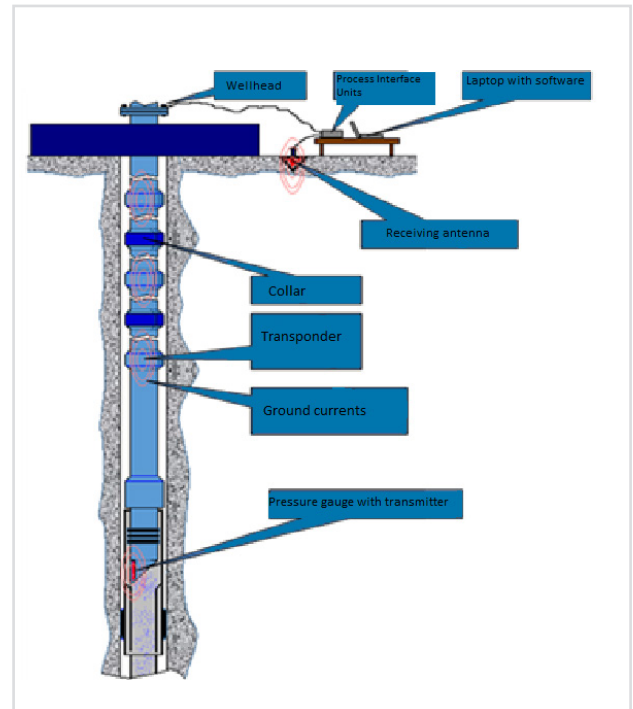
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System example in producing well equipped with sucker-rod pump



System example on performing frac-job



- 1 – tubing
- 2 – sucker rod pump
- 3 – screen
- 4 – reservoir
- 5 – basic module of ASIM
- 6 – spacer cable
- 7 – bottom electrode with geophysical module
- 8 – Interface
- 9 – Computer
- 10 – antenna link