

OILFIELD APPLICATION
TYPICAL PUMPJACK POWER COSTS
ATCO DISTRIBUTION AREA
PRICE SCHEDULE 41
RRO (Regulated Rate Option)

Rate 41:
(For small oilfield customers, where annual consumption is below 250, 000 kWh)

Delivery Charges:

Demand Charge (\$/kW)	\$ 10.84
Charge per kWh (c/kWh)	0.35

Energy Charges:

RRO (Regulated Rate Option)

Cost of Energy (c/kWh)	11.12
Energy Administration Costs, (\$/month)	1.84

Government Rebate or Credit (c/kWh) -3.6

Assumptions:

Production Pump Motor Rating (hp, horsepower)	30
Electrical Equivalent (kW)	22.4
Electrical Motor Efficiency (%)	96%
Connected Electrical Load (kW)	23.30
Load Factor (%)	95%
Power Factor	0.8
Maximum Electrical Demand (kW)	23.30
Average Monthly Energy Usage (kWh)	16161
Annual Power Consumption (kWh)	193929 (Maximum allowed under Rate 41 is 250 000 kWh)

Monthly Charges:

	<u>Unit Cost</u>	<u>Extended Cost</u>
<u>Delivery Charges:</u>		
Demand Charge (\$/kW)	\$ 10.84	\$ 252.61
Charge per kWh (c/kWh)	0.35	\$ 56.56

Energy Charges:

RRO (Regulated Rate Option)

Cost of Energy (c/kWh)	11.12	\$ 1,797.07
Energy Administration Costs (\$/month)	\$ 1.84	\$ 1.84

Government Rebate or Credit, (c/kWh) -3.6 \$ (581.79)

Total Monthly Cost after Government Rebate	\$ 1,526.29
Total Cost/kWh after Government Rebate	\$ 0.09