

# HIGH ANGLE RECIPROCATING PUMP (“HARP”) ACHIEVES 200% IMPROVEMENT IN DAILY OIL PRODUCTION

The High Angle Reciprocating Pump addresses the critical challenge of producing oil, water and gas in aging and deviated horizontal wells with declining fluid levels.

## CHALLENGE

A private independent oil producer in South Texas desired to **improve oil production and pump from a highly deviated position** in an aging horizontal well. The customer’s historic data for the 7 months preceding the well intervention showed a daily average production of 4.21 barrels of oil, 10.67 barrels of water and 31.9 thousand cubic feet of gas. The customer has numerous deviated horizontal wells in the Woodbine formation for which standard API pumps are increasingly unable to meet production goals. Growing production while utilizing existing beam units and delaying or eliminating future requirements for plugging and abandonment of wells were primary goals for this producer.

## SOLUTION

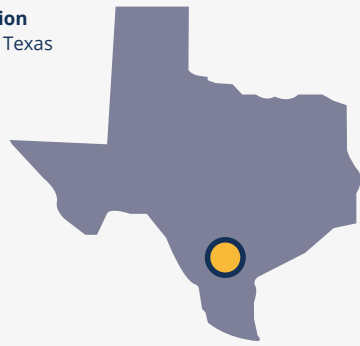
The customer utilized the HARP to produce fluid from a high angle far below the kick-off point, while both increasing pump efficiency and reducing beam unit speed.

## RESULTS

Utilizing a HARP, the customer increased oil and gas production, improved pump efficiency and decreased the beam unit speed. Production data is displayed for 4.5 months post installation. The well continues to operate as of the publication date and the customer subsequently installed 5 more HARP systems.

**CUSTOMER PRODUCTION DATA**

**Location**  
South Texas



	Daily Oil	Daily Gas
Conventional Pump	4.21 bbls	31.9 mcf
HARP:	12.64 bbls	38.2 mcf
<b>Improvement:</b>	<b>200% Gain</b>	<b>19.7% Gain</b>



Your unique well conditions may demand a more innovative or cost-efficient solution than standard API sucker rod pumps can deliver.



Contact your local representative for more information on HARP or other Specialty Rod Pumps.