

CASE STUDY

OBJECTIVE

Artificial lift in corrosive environment where producing fluid up the casing is not an option with any type of lift. Well makes 4% CO₂ and 5,000 ppm (0.5%) H₂S.

RESULTS

Installed JJ Tech reverse flow jet pump where power oil can be treated with inhibitors on the surface and injected down the casing. Power oil and all formation gas and liquids are produced up the tubing.

Artificial Lift in Highly Corrosive Environment



ADVANTAGES OF A JET PUMP

- Ability to treat power fluid with corrosion/scale inhibitors
- No moving parts down-hole
- Can produce high volumes of fluid
- Software can calculate PBHP based on production volumes



INPUT DATA

COMPANY:	LEASE:
WELL IDENTIFICATION: 19-1	REPRESENTATIVE: EJR
PUMP DEPTH: 9890Feet	TUBING LENGTH TO PUMP: 9890Feet
TUBING ID: 2.441Inches	TUBING OD: 2.875Inches
CASING ID: 4.892Inches	POWER FLUID: Oil
BH TEMP: 195Deg F	FLOWING WH TEMP: 70Deg F
GAS LIQ. RATIO: 50SCF/BBL	DESIGN LIQ. PROD. RATE: 400BBL/DAY
PROD. RETURN: Tubing	PRODUCED OIL GRAVITY:52API
PROD. WATER GRAV: (Sp.Gr.): 1.04	PRODUCED GAS GRAVITY:0.8
WAT. FRAC.: (50% = 0.50): 0.5	SURFACE HYD. PRESS.: 4000psig
PUMPING BHP: 1500psig	FLOWING WH PRESS.:50psig
Date: 26 - June - 2009	

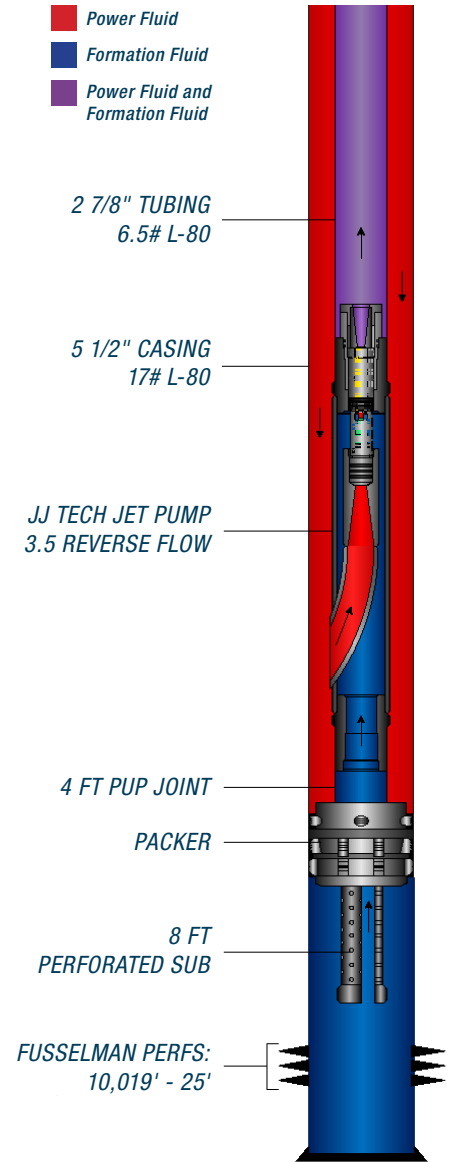
Computed Output Data - English Units

Pump Size	Power Press psig	Power Fluid Rate bblpd	Horse Power	Non-Cav Rate bblpd	Prod. Rate bblpd	Pumping Bot-hole psig	Nozzle Area inches	Throat Area inches
C:4	2469	1156	53	771	400	1500	.0123	.0314
C:4	2019	1019	38	897	400	2000	.0123	.0314
C:4	1566	861	25	1008	400	2500	.0123	.0314

JJ Tech

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T8045 ELECTRIC | 3.5 REVERSE FLOW JET PUMP | WEST TEXAS



REVERSE FLOW JET PUMP SURFACE DIAGRAM

