



PROFILE

ENHANCED PETROLEUM TECHNOLOGY, INC.

30+ YEARS OF DEDICATED SERVICE TO THE PETROLEUM INDUSTRY, WORKING TO IMPROVE YOUR ECONOMIC RESULTS

- **INCREASING YOUR OIL AND GAS PRODUCTION**
- **DECREASING YOUR EXCESS WATER PRODUCTION**
- **IMPROVING YOUR WATER, POLYMER, GAS, CHEMICAL OR STEAM FLOODING EFFICIENCY**
- **INCREASING YOUR ULTIMATE RESERVES**

EPT'S "EOR" AND PRODUCTION ENHANCEMENT EXPERTISE INCLUDES EVERYTHING FROM PROJECT DESIGN, TO ACTUAL FIELD IMPLEMENTATION AND ON SITE PROJECT SUPERVISION

1. IMPROVED OIL RECOVERY TECHNOLOGIES IN OIL WELLS UTILIZING HIGH TEMPERATURE STABLE POLYMER GELS

- **POLYMER WATER SHUTOFF at TEMPERATURES OF UP TO 325° F.**
- **INJECTION PROFILE MODIFICATION IN WATER FLOODS**
- **INJECTION PROFILE MODIFICATION IN POLYMER FLOODS**
- **INJECTION PROFILE MODIFICATION IN GAS and WAG FLOODS**
- **CASING LEAK REPAIRS**

2. "THERMAL" IMPROVED OIL RECOVERY TECHNOLOGIES

- **STEAM INJECTION PROFILE MODIFICATION UTILIZING HIGH TEMPERATURE STABLE POLYMER GEL SYSTEMS**
- **POLYMER WATER SHUTOFF IN THERMAL PRODUCING WELLS**
- **LOW COST STEAM FOAM DIVERSION IN PRODUCTION WELLS**

3. SAND CONTROL TECHNOLOGY IN THERMAL WELLS

- **SANDBAN™ SAND CONSOLIDATION IN PRODUCING WELLS**
- **SANDBAN™ SAND CONSOLIDATION IN INJECTION WELLS**
- **SANDBAN™ SAND CONSOLIDATION IN NEW WELLS**



ENHANCED PETROLEUM TECHNOLOGY, INC.

PRODUCING WELL WATER SHUTOFF THROUGH PROPERLY ENGINEERED POLYMER APPLICATIONS

EXCESSIVE WATER PRODUCTION HAS BEEN A MAJOR REASON FOR POOR ECONOMICS OF PRODUCING OIL AND GAS WELLS, BOTH IN THE USA AND WORLD WIDE.

EPT'S PERSONNEL HAVE BEEN REDUCING WATER PRODUCTION AND RETURNING WELLS TO ECONOMIC PRODUCTIVITY FOR MORE THAN 20 YEARS

WHAT CAN POLYMERS DO TO EXCLUDE UNWANTED WATER PRODUCTION

- **ELIMINATE OR REDUCE BOTTOM WATER CONING**
- **ELIMINATE WATER PRODUCTION FROM CHANNELS**
- **REDUCE WATER PRODUCTION FROM FRACTURES**
- **DECREASE RELATIVE PERMEABILITY TO WATER**

TYPES OF WATER EXCLUSION POLYMER TREATMENTS

- **THREE DIMENSIONAL CROSSLINKED POLYMER GELS DESIGNED TO PREVENT FLUID FLOW IN TREATED ZONES**
- **THREE DIMENSIONAL CROSSLINKED POLYMER GELS STABLE AT TEMPERATURES OF UP TO 325+°F.**
- **LAYERED ABSORPTION POLYMERS DESIGNED TO REDUCE RELATIVE PERMEABILITY TO WATER**

EPT PERSONNEL HAVE SUCCESSFULLY REDUCED EXCESS WATER PRODUCTION AND INCREASED OIL OR GAS PRODUCTION IN HUNDREDS OF WELLS IN THE USA AND THROUGHOUT THE WORLD WITH PROVEN MULTI YEAR PROJECT EFFECTIVENESS.

LET EPT SHOW YOU HOW TO REDUCE YOUR WATER LIFTING, TREATMENT AND DISPOSAL COSTS, WHILE INCREASING YOUR OIL AND GAS PRODUCTION, WHILE REDUCING YOUR ENVIRONMENTAL LIABILITY



ENHANCED PETROLEUM TECHNOLOGY, INC.

POLYMER GEL TREATMENT SYSTEMS TO IMPROVE WATER, POLYMER, GAS AND WAG FLOODING SWEEP EFFICIENCY

A PROPERLY DESIGNED POLYMER TREATMENT PROGRAM CAN IMPROVE BOTH VERTICAL AND HORIZONTAL SWEEP EFFICIENCIES IN:

- **WATER FLOODS**
- **POLYMER FLOODS**
- **WAG FLOODS**
- **MISCIBLE AND IMMISCIBLE GAS FLOODS**
- **STEAM FLOODS**

EPT'S PERSONNEL HAVE BEEN DESIGNING, IMPLEMENTING AND SUPERVISING ECONOMIC POLYMER PROFILE MODIFICATION PROJECTS FOR MORE THAN 20 YEARS

A PROPERLY DESIGNED POLYMER TREATMENT CAN HELP TO REDUCE THE EFFECTS OF:

- **RESERVOIR HETEROGENEITY**
- **POOR MOBILITY RATIOS**
- **DESATURATED (THIEF) ZONES**
- **WELL FRACTURES (NATURAL AND HYDRAULIC)**
- **IMPROPER FLOOD DESIGN OR OPERATION**

POLYMER SYSTEMS AVAILABLE THROUGH EPT

- **POLYACRYLAMIDE SYNTHETIC POLYMERS**
- **HARSH ENVIRONMENT POLYMERS CAPABLE OF FORMING STABLE, LONG TERM GELLS IN HIGH BRINE WATERS AT TEMPERATURES IN EXCESS OF 325°F.**

EPT'S EXPERTS HAVE FOUND THAT EACH PROJECT IS UNIQUE, WITH ITS OWN SET OF PROBLEMS AND OPERATING CONSTRAINTS. THEREFORE EACH PROJECT IS STUDIED, EVALUATED AND COMPARED TO PRIOR PROJECT DATA. A SYSTEM IS THEN DEVELOPED, IMPLEMENTED, PROPERLY SUPERVISED AND MONITORED. EPT PROVIDES A CONTINUOUS SERVICE, FROM PROJECT TREATMENT DESIGN, CONTINUING THROUGH THE EVALUATION PHASE, TO ASSURE MAXIMUM ECONOMIC BENEFIT TO THE OPERATOR.

EPT

DATA SHEET

POLYMER WATER SHUTOFF –or– WATER INJECTOR PROFILE MODIFICATION

WELL NUMBER: _____ DATE: _____

OPERATOR: _____ CONTACT: _____

ADDRESS: _____ COUNTRY: _____

FIELD and or LEASE: _____ ON SHORE: _____ OFF SHORE: _____

PRODUCING WELL: _____ INJECTION WELL _____

METHOD OF PRODUCTION: _____

WELL SPACING: _____ PATTERN SPACING (IF APPLICABLE): _____

OBJECTIVE OF POTENTIAL TREATMENT: _____

RESERVOIR DATA

FORMATION NAME: _____ LITHOLOGY: _____

FORMATION TYPE: _____ DEPTH: _____

FORMATION THICKNESS, GROSS: _____ NET: _____

FRACTURE or PARTING PRESSURE: _____

COMPLETION TYPE: _____

OIL GRAVITY, API: _____ BOTTOM HOLE TEMPERATURE: _____

POROSITY: _____

HORIZONTAL PERMEABILITY: _____ md. VERTICAL PERMEABILITY: _____ md.

PRODUCTION DATA (PRODUCER)

INITIAL OIL PRODUCTION, BPD: _____ CURRENT OIL PRODUCTION, BPD: _____

INITIAL WATER PROD, BPD: _____ CURRENT WATER PROD, BPD: _____

FLUID LEVEL OVER PUMP WHILE PRODUCING: _____

SIZE AND TYPE OF FLUID LIFTING EQUIPMENT: _____

PLEASE ATTACH OIL/WATER PRODUCTION HISTORY FOR THE PAST 12-24 MONTHS
PLEASE ATTACH THE LATEST WATER ANALYSIS OF THE PRODUCED WATER AND
MAKEUP WATER THAT WOULD BE USED TO BLEND THE POLYMER GEL SOLUTION

PLEASE ATTACH THE LATEST WELL COMPLETION SCHEMATIC WITH ANY DATA MAY BE
AVAILABLE AS TO WHERE WATER SOURCE OR THE OIL WATER CONTACT MAY BE.

WATER SOURCE: _____

ATTACH ANY SURVEY OR OTHER DATA SHOWING WHERE THE WATER IS ENTERING
PLEASE ATTACH THE WATER INJECTION RATE AND PRESSURE FOR THE PAST 1-2 YEARS

The background is a deep blue color with intricate, organic, and flowing patterns that resemble liquid or smoke. The patterns are lighter blue and white, creating a sense of movement and depth. The overall effect is a modern, artistic, and somewhat ethereal aesthetic.

EPT





rep by : **PT. PASIFIK TIMUR ENERGINDO**
Indonesia

