



DATE: 04/25/95
TIME: 10:30:46
PAGE: 13

LEASE CODE #: 340216
LEASE: BATES UNIT WELL: 4W-03
FIELD: BATES, RESERVOIR: WATER SUPPLY
COUNTY: SUMNER, STATE: KS
OPERATOR: PHILLIPS PETROLEUM CO

McGee Energy Services, Inc. and Clients
makes no representation or warrants with
respect to any of this information.

PHILLIPS-PRODUCTION-LEDGER

DATE	OIL, BBL	CUM-OIL	GAS, MCF	CUM-GAS	GOR, CF/BBL	WATER, BBL	WATER CUT, %	DAYS ON
PRIOR	0	0	0	0	0	737,636	0.00	5460
1/94								
2/94								
3/94								
4/94								
5/94								
6/94								
7/94								
8/94	0	0	0	0	0	0	0.00	0
9/94	0	0	0	0	0	0	0.00	0
10/94	0	0	0	0	0	0	0.00	0
11/94	0	0	0	0	0	0	0.00	0
12/94	0	0	0	0	0	0	0.00	0
TOT/94	0	0	0	0	0	0		
1/95	0	0	0	0	0	0	0.00	0
2/95	0	0	0	0	0	0	0.00	0
3/95								
4/95								
5/95								
6/95								
YTD/95	0	0	0	0	0	0		
TOTAL	0	0	0	0	0	737,636		



PHILLIPS OIL COMPANY
A SUBSIDIARY OF PHILLIPS PETROLEUM COMPANY

Great Bend, Kansas
February 9, 1984

RECEIVED M.C. REGION

FEB 13 1984

E&P

Inre: Bates Unit #4-W03
SW SW SE, Sec. 36-T30S-R2W
Sumner County, Kansas
Docket No. 82,777-C (C-13,900)

State Corporation Commission
Conservation Division
200 Colorado Derby Building
Wichita, Kansas 67202

Gentlemen:

Attached for your consideration and approval is an "Application to Amend Salt Water Disposal Order" for the above referenced Bates Unit #4-W03. Please note that the estimated maximum amount of water to be injected in this well has been increased to 2500 BWPD. Also, all of the water being injected into the well is from the water supply well, the Bates Unit #S-1. The Bates Unit #S-1 is produced by submersible pump to provide water for the waterflood on the Bates Unit. There are no offset operators with active producers, other than Phillips, within one-half mile of the referenced well.

Your prompt attention in this matter is appreciated.

Yours very truly,

Kaare A. Westby

Kaare A. Westby, Area Manager
P.O. Box 287
Great Bend, Kansas 67530
License No. 5229

KES/plp

cc: Bates Unit #4-W03 - RC
~~R. D. Stichler w/attach.~~

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respect to any of this information.

REQUEST FOR APPROVAL TO CHANGE INDIVIDUAL WELL STATUS OR TO PERFORM WORK

Date September 1 19 83

AFE or WP No. P-AD15
Work Order No. _____
Budget Item No. _____

PROPERTY:

Name: Bates Unit
Field: Bates County: Sumner State: Kansas
Phillips Working Interest 84.015 % Revenue Interest 70.021938 %

PROPOSAL:

Replace fiber cast tubing in well 4W3, install packer and conduct gelled polymer treatments on injection wells 4W3 and 5W2 to qualify incremental oil for tertiary oil classification.

JUSTIFICATION:

The current water injection rate in the Bates Unit exceeds the total fluid production rate by a factor of 3.6 to one. The excess water injection is not influencing the producing wells closest to the injection wells as the oil and water production rates remain low and there is little fluid above the pumps. It is postulated the injection water is channeling to the high porosity water zone of the Mississippi Limestone formation and is bypassing the tighter oil zone. Consequently, waterflood sweep efficiency is very poor. The gelled polymer treatments will alleviate this problem by diverting the injection water to the oil zone and increasing the rate of oil production. Based on incremental oil recovery of 4.0 BO per pound of polymer injected, the project will payout in 7.3 months.

PRESENT STATUS:

Production:	Lease	<u>214.4</u>	BO/D,	<u>348.4</u>	BW/D,	<u>0</u>	MCFG/D
	Well	<u>---</u>	BO/D,	<u>---</u>	BW/D,	<u>---</u>	MCFG/D
Producing Formation in Well:	<u>4W3</u>		<u>5W2</u>		Producing Casing:	<u>4W3</u>	<u>5W2</u>
Name:	<u>Mississippi</u>		<u>Miss.</u>		Size:	<u>5 1/2" 15.5#</u>	<u>5 1/2" 14#</u>
Top:	<u>3736'</u>		<u>3739'</u>		Set at:	<u>3804'</u>	<u>3739'</u>
Bottom:	<u>3754'</u>		<u>3750'</u>		PTD:	<u>3777'</u>	<u>3750'</u>
Perforations:	<u>3736'-41' & 3750'-54'</u>		<u>3739'-50' Open Hole</u>				

AVERAGE MONTHLY ECONOMICS PERTAINING TO PROPOSAL (Full Working Interest):

	Reserve	Production	Revenue	Operating Expense	Operating Income
Before					
After	<u>NA</u>				
Change					

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respect to any of this information.

EVALUATION SUMMARY:

	Original Plus Previous Supplements	This Supplement # _____	Original Plus All Supplements
Cost: Gross	\$ _____	\$ _____	\$ _____
Phillips Net	\$ _____	\$ _____	\$ _____
AARR	_____ %	_____ %	_____ %
Payout	_____ Yrs.	_____ Yrs.	_____ Yrs.
NTIR	_____	_____	_____
Net Profit	\$ _____	\$ _____	\$ _____
Project Life	_____ Yrs.	_____ Yrs.	_____ Yrs.
Risk	_____	_____	_____

PREPARED BY: P. D. Moffitt

APPROVALS:

P. D. Moffitt District 9-2-83 Date

Form 902 8-70 Region _____ Date _____ Bartlesville _____ Date _____



PHILLIPS PETROLEUM COMPANY

OKLAHOMA CITY, OKLAHOMA 73102
101 NORTH ROBINSON PHONE: 405 239-2611

EXPLORATION AND PRODUCTION GROUP

**McGee Energy Services, Inc. and Clients
makes no representation or warrants with
respect to any of this information.**

July 18, 1983

Re: Bates Unit
Gelled Polymer Treatments
Injection Wells 4W3 and 5W2
Sumner County, Kansas

THE WORKING INTEREST OWNERS
BATES UNIT

Approval is requested of the enclosed cost estimate amounting to a gross \$96,745 to treat Unit injection wells 4W3 and 5W2 with gelled polymer. This will improve the sweep efficiency of the waterflood and allow certification of the Unit as Tertiary for Windfall Profits Tax purposes. Based on projected recovery of four barrels of incremental oil per pound of polymer injected, the project will provide an average annual rate of return of 440 percent, payout of 0.61 years, and return the expenditures 13 times. Please execute the cost estimate in the space provided and return one copy to the above address, Attention: Unit Representative.

There are currently fourteen active producing wells in the Bates Unit and two active injection wells. Total unit production is 214 BOPD and 348 BWPD from well tests, and total Unit water injection is 2047 BWPD. Historically water injection has exceeded fluid production by a factor of three to one in the Bates Unit. The injection water has been diverted down to the high porosity, high permeability section of the Mississippi Limestone formation and bypassed the tighter oil zone which lies above the water zone. Only four of the 14 producing wells in the Unit produce at a water-oil ratio of greater than ten and these lie in the down dip portion of the reservoir. Gelled polymer treatments on the injection wells will divert water from the water zone to the oil zone and increase the rate of oil production from the Unit producing wells.

The estimated gross total costs include costs to clean out and acidize the two wells, run injection profile surveys before and after the treatments, and conduct the gelled polymer treatments. The costs can be recovered in less than one year by certifying the Unit as a Tertiary project and lowering the Windfall Profits Tax rate to 30 percent.

Very truly yours,

PHILLIPS PETROLEUM COMPANY


R. A. Easter
Unit Representative

RAE:PDM/ks
Enclosed