

STATE OF KANSAS - CORPORATION COMMISSION

PRODUCTION TEST & GOR REPORT

15-077-20783 Form C-5 Revised

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE:

Company: MPC Petroleum Corp Lease: Gates C Well No. 1

County: Harper Location: CNWNE Section: 2 Township: 3AS Range: 8W Acres:

Field: Wharton Pool Extension Ft Scott Reservoir: Pipeline Connection: Roch - Peoples

Completion Date: 3-20-82 Type Completion (Describe): PERFORATIONS Plug Back T.D.: 4760 Packer Set At:

Production Method: Flowing Type Fluid Production: Oil-Gas API Gravity of Liquid/Oil: 48

Flowing Pumping Gas Lift

Casing Size: 4 1/2 Weight: 10.5 I.D.: Set At: Perforations: 4487-4492' To:

Tubing Size: 2 3/8 Weight: 4.7 I.D.: Set At: 4495 Perforations: To:

Pretest: Starting Date: 8-13-84 Time: 8:00 Ending Date: 8-14-84 Time: 8:00 Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size				
Casing:	<u>130</u>		Tubing:	<u>170</u>		<u>Open</u>				
Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	<u>720</u>		<u>7</u>	<u>-</u>	<u>14078</u>	<u>7</u>	<u>2</u>	<u>14362</u>	<u>-</u>	<u>5.01</u>
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections				Orifice Meter Range			
Pipe Taps:	Flange Taps:	Differential:	Static Pressure:				
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester In. Water	Pressure In. Merc.	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
Orifice Meter	<u>200</u>	<u>1/2</u>	<u>10</u>		<u>95</u>	<u>.650</u>	<u>60</u>
Critical Flow Prover							
Orifice Well Tester							

GAS FLOW RATE CALCULATIONS (R)

Gcoeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia)	Extension (Fm)	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
<u>1.214</u>		<u>79.15</u>	<u>1.240</u>	<u>1.000</u>	<u>1.000</u>	
Gas Prod. MCFD	Oil Prod. Bbls./Day:	Gas/Oil Ratio (GOR) =	Cubic Ft. per Bbl.			
Flow Rate (R): <u>43891</u>	<u>3.34</u>	<u>13.138</u>				

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 14 day of AUGUST 1984

For Offset Operator: PCWS 08-14-84

For State: [Signature]

For Company: [Signature]

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division
 TYPE TEST: Initial Annual Workover Reclassification TEST DATE:
 Company McRay Petroleum Corporation Lease James D Well No. 1
 County Harper Location CRUSE Section 2 Township 3AS Range 8N Acres
 Field Wharton East Extension F. Scott Mgr Reservoir North Northern Pipeline Connection
 Completion Date 3-7-82 Type Completion (Describe) Refracturing Plug Back T.D. 4760' Packer Set At
 Production Method: Flowing Pumping Gas Lift Oil - Gas - SW Type Fluid Production API Gravity of Liquid/Oil 33
 Casing Size 4 1/2 Weight 105 I.D. 4.875 Set At 487-92 Perforations To
 Tubing Size 3 1/2 Weight 47 I.D. 4.875 Set At 485' Perforations To

Pretest: Starting Date 10-1-88 Time 8:00 Ending Date 10-7-88 Time 8:00 Duration Hrs. 74
 Test: Starting Date 10-1-88 Time 8:00 Ending Date 10-7-88 Time 8:00 Duration Hrs. 74

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure		Choke Size					
Casing: <u>135</u>	Tubing: <u>135</u>	<u>170</u>		<u>Open</u>					
Bbls./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:									
Test:	<u>700</u>	<u>5</u>	<u>1</u>	<u>1087</u>	<u>5</u>	<u>5</u>	<u>10855</u>		<u>6.68</u>
Test:									

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range					
Pipe Taps:	Flange Taps:	Differential:	Static Pressure:					
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-In. Water	Tester Pressure In. Merc.	Pressure Psig or (Pd)	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
Orifice Meter	<u>3</u>	<u>1/2</u>			<u>105</u>	<u>8</u>	<u>650</u>	<u>60</u>
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)	MCFD (Fp)	Meter-Prover Press. (Psia)	Orifice (Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
<u>1.24</u>				<u>79.98</u>	<u>1.240</u>	<u>1.000</u>	<u>1.000</u>	

Gas Prod. MCFD 43,675 Oil Prod. Bbls./Day: 6.68 Gas/Oil Ratio (GOR) = 6.530 Cubic Ft. per Bbl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 2 day of October 1988

For Offset Operator _____ For State _____ For Company Paul J. Hanson

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE:

Company: MCP Petroleum Corp Lease: Case 1 Well No. 1

County: Harper Location: CNUSE Section: 2 Township: 3AS Range: 9W Acres:

Field: Wharton East Extension F.F. Scott - Miss Reservoir: Pipeline Connection: Roch Northcut

Completion Date: 3-26-87 Type Completion (Describe): Perforations Plug Back T.D.: 470 Packer Set At:

Production Method: Type Fluid Production: Oil - Gas - SW API Gravity of Liquid/Oil: 38

Flowing Pumping Gas Lift

Casing Size: 4 1/2 Weight: 10.5 I.D.: Set At: 4487-97 Perforations: To:

Tubing Size: 2 3/8 Weight: 4.7 I.D.: Set At: 4485' Perforations: To:

Pretest: Starting Date Time Ending Date Time Duration Hrs.

Test: Starting Date 7-1-86 Time 9:00 Ending Date 7-7-86 Time 8:00 Duration Hrs. 74

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure		Choke Size						
Casing: <u>1 1/2</u>	Tubing: <u>1 1/2</u>	<u>170</u>	<u>170</u>	<u>Open</u>						
Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	<u>700</u>		<u>6</u>	<u>-</u>	<u>170.24</u>	<u>6</u>	<u>5 1/2</u>	<u>179.43</u>	<u>173.34</u>	<u>9.18</u>
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range					
Pipe Taps:	Flange Taps:		Differential:		Static Pressure:			
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure		Diff. Press.	Gravity	Flowing	
			In. Water	In. Merc.	Psig or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)
Orifice Meter	<u>3</u>	<u>1/2</u>			<u>170</u>	<u>11</u>	<u>1.50</u>	<u>60</u>
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
<u>1.714</u>		<u>36.33</u>	<u>1.240</u>	<u>1.000</u>	<u>1.000</u>	

Gas Prod. MCFD: 54,689 Oil Prod. Bbls./Day: 9.18 Gas/Oil Ratio (GOR) = 5957 Cubic Ft. per Bbl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 7 day of July 1986

For Offset Operator: [Signature] For State: [Signature] For Company: [Signature]

TYPE TEST: Initial Annual Workover Reclassification TEST DATE:

Company McCoy Petroleum Corporation Lease Gates "C" Well No. 1

County Harper Location C-NW-SE Section 2 Township 34S Range 8W Acres

Field Wharton Pool Extension Reservoir Ft. Scott, Miss Pipeline Connection Koch - Peoples

Completion Date 3-26-82 Type Completion(Describe) Perforations Plug Back T.D. 4760' Packer Set At

Production Method: Type Fluid Production API Gravity of Liquid/Oil

Flowing Pumping X Gas Lift Oil-Gas-SW
 Casing Size 4-1/2" Weight 10.5# I.D. Set At 4795' Perforations 4487-4492' To 4698-4704' 4712-4717'
 Tubing Size 2-3/8" Weight 4.7# I.D. Set At 4696' Perforations To

Pretest: Starting Date 8-18-92 Time 8:00 Ending Date 8-19-92 Time 8:00 Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure		Choke Size						
Casing: 115	Tubing: 115	110		Open						
Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	200		6	7	131.93	6	11	138.61		6.68
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range					
Pipe Taps:	Flange Taps:	Differential:	Static Pressure:					
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure			Diff. Press.	Gravity	Flowing
			In.Water	In.Merc.	Psig or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)
Orifice Meter	3	1/2			90	7.5	.650	60
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (Fb)(Fp)(OWTC)	Meter-Prover Press.(Psla)(Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
1.214		25.98	1.240	1.0	1.0	1.0

Gas Prod. MCFD Flow Rate (R): 39.11 Oil Prod. Bbls./Day: 6.68 Gas/Oil Ratio (GOR) = 5.85 Cubic Ft. per Bbl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 19th day of Aug. 1992

For Offset Operator For State For Company

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE:

Company: McPherson Oil Corp Lease: Gate 1 Well No. 1

County: Hopper Location: C.M. 15 Section: 2 Township: 3AS Range: 8N Acres:

Field: Whiston Extension Reservoir: FS Pipeline Connection: Roch. District

Completion Date: 3-25-87 Type Completion (Describe): Production Plug Back T.D.: 4760 Packer Set At:

Production Method: Flowing Type Fluid Production: Oil-Gas API Gravity of Liquid/Oil: 48

Flowing Pumping Gas Lift

Casing Size: 4 1/2 Weight: 11.5 I.D.: Set At: Perforations: 4487-4492 To:

Tubing Size: 2 3/8 Weight: 4.7 I.D.: Set At: 4484-45 Perforations: To:

Pretest: Starting Date: Time: Ending Date: Time: Duration Hrs.:

Test: Starting Date: 10-15-85 Time: 9:00 Ending Date: 10-16-85 Time: 8:00 Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size				
Casing:	<u>11.5</u>		Tubing:	<u>11.5</u>		<u>Open</u>				
Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	<u>200</u>		<u>7</u>	<u>0</u>	<u>14028</u>	<u>7</u>	<u>9</u>	<u>15531</u>	<u>173</u>	<u>15.03</u>
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range				Static Pressure:	
Pipe Taps:	Flange Taps:		Differential:		Static Pressure:			
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover In. Water	Tester Pressure In. Merc.	Pressure Psig or (Pd)	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)-
Orifice Meter	<u>3</u>	<u>1/2</u>			<u>115</u>	<u>7</u>	<u>.65</u>	<u>60</u>
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia) (Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
<u>1.714</u>		<u>28.37</u>	<u>1.740</u>	<u>1.000</u>	<u>1.000</u>	
Gas Prod. MCFD Flow Rate (R):	<u>42.107</u>	Oil Prod. Bbls./Day:	<u>15.03</u>	Gas/Oil Ratio (GOR) =	<u>2841</u>	Cubic Ft. per Bbl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 10 day of October 1985

For Offset Operator

For State

For Company RECEIVED
 STATE CORPORATION COMMISSION

NOV 12 1985

CONSERVATION DIVISION
 Wichita, Kansas