

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

EXHIBIT 3A-6

15-129-21103-0000

Form C-5 Revised

Conservation Division

TEST TYPE: (Initial) Annual Workover Reclassification TEST DATE: 01-08-92

Company: H. Jarko Petroleum Corp. Lease: Ratzlaff E Well No.: #1

County: Morton Location: 660 FSL & 1650 FEL Section: 3 Township: 33 Range: 40 Acres:

Field: Stirrup Reservoir: U. Morrow Pipeline Connection: N/A

Completion Date: 12-11-91 Type Completion (Describe): Oil Plug Back T.D.: 5380 Packer Set At: N/A

Production Method: Pumping Type Fluid Production: Oil API Gravity of Liquid/Oil: 39.6 @ 60°

Flowing Casing Size: 5.500 Weight: 15.5 I.D.: 4.950 Set At: 5899 Perforations: 5288 To: 5303

Flowing Tubing Size: 2.375 Weight: 4.70 I.D.: 1.995 Set At: 5235 Perforations: - To: -

Pretest: Starting Date: 1-6-92 Time: 9:30 am Ending Date: 1-7-92 Time: 9:30 am Duration Hrs.: 24

Test: Starting Date: 1-7-92 Time: 9:30 am Ending Date: 1-8-92 Time: 9:30 am Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure		Choke Size
Casing: <u>30</u>	Tubing: <u>30</u>	<u>30</u>	<u>30</u>	<u>64/64</u>

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Test:	300 Flat	Middle	3	8 1/2	73.19	8	10	175.60	-0-	102.41
Test:	300 Flat	Middle	3	10	175.60	13	7	270.46	-0-	94.86
Test:	300 Flat	West	1	10	36.11	2	0	39.26	-0-	3.15

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections				Orifice Meter Range			
Line Taps:	Flange Taps:	Differential:	Static Pressure:				
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure	Diff. Press.	Gravity	Flowing Temp.	
			In. Water In. Merc. Psig or (Pd)	(hw) or (hd)	Gas (Gg)	(°F)	
Orifice Meter							
Critical Flow Prover							
Orifice Well Tester	<u>2</u>	<u>.250</u>			<u>12.5</u>		

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>20.7</u>	<u>12.5</u>		<u>.9258</u>			

Gas Prod. MCFD: 31 MCFD Oil Prod. Bbls./Day: 93.01 Gas/Oil Ratio (GOR) = 316 Cubic Ft. per Sbl. 194

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 this report is true and correct. Executed this the 8th day of January 1992

For Offset Operator: James R. Kapp For State: James R. Kapp For Company: James R. Kapp for A.P.C.

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division
 TYPE TEST: Initial (Annual) Workover Reclassification TEST DATE: 2-6-96
 Company: Anadarko Petroleum Corporation Lease: Ratzliff Well No.: E-1
 County: MORTON Location: 660 FSL+1650 FEL Section: 03 Township: 33 Range: 40 Acres:
 Field: Stirrup Reservoir: Upper Morrow Pipeline Connection: Anadarko Gathering Co
 Completion Date: 12-11-91 Type Completion (Describe): Single Oil Plug Back T.D.: 5380 Packer Set At:
 Production Method: Type Fluid Production: Oil API Gravity of Liquid/Oil: 39.6 @ 60
 Flowing Casing Size: 5.50 Pumping Gas Lift Weight: 15.50 I.D.: 4.950 Set At: 5899 Perforations: 5288 To: 5303
 Tubing Size: 2.375 Weight: 4.70 I.D.: 1.995 Set At: 5235 Perforations: To:

Pretest: Starting Date: Time: Ending Date: Time: Duration Hrs.:
 Test: Starting Date: 2-5-96 Time: 9:15 AM Ending Date: 2-6-96 Time: 9:15 AM Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size				
Casing:	340		Tubing:	70		32				
Bbls./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.		
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	FLAT	300	4'	1"	80.68	6	8	132.3	0	51.62
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections				Orifice Meter Range				
Pipe Taps:	Flange Taps:		Differential:		Static Pressure:			
Measuring Device	Orifice Tester Size	Orifice Size	Meter-Prover-Tester Pressure		Diff. Press.	Gravity	Flowing Temp.	
			In. Water	In. Merc.	Psig or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)
Orifice Meter	3	2"			39#	6.08	.700	60°
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 (Fdv)	Chart Factor (Fd)
21.86	53.4	18.018	1.195	1.000	1.000	
Gas Prod. MCFD	Oil Prod. Bbls./Day:	Gas/Oil Ratio (GOR) =	Cubic Ft. per Bbl.			
Flow Rate (R):	470	51.62	9,104			

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 9th day of February 1996

For Offset Operator: _____ For State: _____ For Company: *W. S. Kashi*

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

N7

Form C-5 Revised

Conservation Division

TYPE TEST: Initial (Annual) Workover Reclassification TEST DATE: 10-5-94

Company Anadarko Petroleum Corp. Lease Ratzlaff Well No. E-1

County Morton Location 660 FSL+1650 FEL 03 Section 33 Township 40 Range Acres

Field Stirrup Reservoir Upper Morrow Pipeline Connection Anadarko Gathering Co.

Completion Date 12-11-91 Type Completion (Describe) Single oil Plug Back T.D. 5380 Packer Set At

Production Method: Flowing Pumping Gas Lift Type Fluid Production Oil API Gravity of Liquid/Oil 39.6 @ 60°

Casing Size 5.50 Weight 15.5 I.D. 4.950 Set At 5899 Perforations 5288 To 5303

Tubing Size 2.375 Weight 4.70 I.D. 1.995 Set At 5235 Perforations To

Pretest: Starting Date Time Ending Date Time Duration Hrs.

Test: Starting Date 10/4/94 Time 9:15A Ending Date 10/5/94 Time 9:15AM Duration Hrs. 24hrs

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Separator Pressure Choke Size
 Casing: 430 Tubing: 95 35# 55/64

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	300		5	1/4	99.41	11'	10"	235.51		136.1
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections Orifice Meter Range
 Pipe Taps: Flange Taps: Differential: 100 Static Pressure: 250

Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure			Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
			In. Water	In. Merc.	Psig or (Pd)			
Orifice Meter	3	2"			45	21	.700	60°
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia)(Pm)	Extension Vhw x Pm	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
21.86	59.4	35.318	1.195	1.000	1.000	

Gas Prod. MCFD Flow Rate (R): 923 Oil Prod. Bbls./Day: 136.10 Gas/Oil Ratio (GOR) = 6.781 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 5th day of Oct, 1994

Albert S. Kembo For State
 [Signature] For Company

For Offset Operator

PRODUCTIVITY TEST
BARREL TEST

OPERATOR _____ LOCATION OF WELL _____
 LEASE _____ OF SEC. _____ T _____ R _____
 WELL NO. _____ COUNTY _____
 FIELD _____ PRODUCING FORMATION _____
 Date Taken _____ Date Effective _____
 Well Depth _____ Top Prod. Form _____ Perfs _____
 Casing: Size _____ Wt. _____ Depth _____ Acid _____
 Tubing: Size _____ Depth of Perfs _____ Gravity _____
 Pump: Type _____ Bore _____ Purchaser _____
 Well Status _____
 Pumping, flowing, etc.

TEST DATA

Permanent _____ Field _____ Special _____
 Flowing _____ Swabbing _____ Pumping _____

STATUS BEFORE TEST:

PRODUCED _____ HOURS
 SHUT IN _____ HOURS
 DURATION OF TEST _____ HOURS _____ MINUTES _____ SECONDS
 GAUGES: WATER _____ INCHES _____ PERCENTAGE
 OIL _____ INCHES _____ PERCENTAGE
 GROSS FLUID PRODUCTION RATE (BARRELS PER DAY) _____
 WATER PRODUCTION RATE (BARRELS PER DAY) _____
 OIL PRODUCTION RATE (BARRELS PER DAY) _____ PRODUCTIVITY
 STROKES PER MINUTE _____
 LENGTH OF STROKE _____ INCHES
 REGULAR PRODUCING SCHEDULE _____ HOURS PER DAY.
 COMMENTS _____

WITNESSES:

FOR STATE

FOR OPERATOR

FOR OFFSET

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

TYPE TEST: Initial (Annual) Workover Reclassification TEST DATE: 11-14-97

Company: Anadarko Petroleum Corp Lease: Ratzlaff Well No.: E-1

County: Morton Location: L60FSL & 16S0FEL Section: 03 Township: 33 Range: 40 Acres:

Field: Stirrup Reservoir: Upper Morrow Pipeline Connection: Anadarko Gathering Co.

Completion Date: 12-11-91 Type Completion (Describe): Single Oil Plug Back T.D.: 5380 Packer Set At:

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

Flowing Casing Size	Weight	I.D.	Set At	Perforations	To
5.50	15.50	4.950	5899	5288	5303
Tubing Size	Weight	I.D.	Set At	Perforations	To
2.375	4.70	1.995	5235		

Pretest: Starting Date 11-13-97 Time 11:00A.M. Ending Date 11-14-97 Time 11:00A.M. Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure			Choke Size				
Casing:	Tubing:								
Bbls./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:									
FIAT Test:	300	4	-	79.02	5	11	117.35	Trace	38.33
Test:									

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections		Orifice Meter Range			Static Pressure:		
Pipe Taps:	Flange Taps:	Differential:					
Measuring Device	Run Prover-Tester Size	Orifice Size	Meter Prover-Tester Pressure	Pressure	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
			In. Water	In. Merc. (Psig) or (Pd)			
Orifice Meter	3"	1/4"	RECEIVED	11	7	.700	60°
Critical Flow Prover			STATE REC'D				
Orifice Well Tester			DEC 1 1997				

GAS FLOW RATE CALCULATIONS (R)

Coeff. (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)
7.771	25.4	13.334	1.195	1.000	1.000	-

Gas Prod. MCFD: 124 Oil Prod. Bbls./Day: 38.33 Gas/Oil Ratio (GOR) = 3.235 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 18th day of NOVEMBER 1997

For Offset Operator: *Gay L. Winter* For State
 For Company: *Don Morgan*

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Conservation Division

Form C-5 Revised

TYPE TEST: Initial (Annual) Workover Reclassification TEST DATE:

Company: Anadarko Petroleum Corp. Lease: Ratzloff Well No.: E-1

County: Morton Location: 660FSL 1650FEL Section: 03 Township: 33 Range: 40 Acres:

Field: Stirrup Reservoir: Upper Marrow Pipeline Connection: Anadarko Gathering Co.

Completion Date: 12-11-91 Type Completion (Describe): Single Oil Plug Back T.D.: 5380 Packer Set At:

Production Method: (Pumping) Type Fluid Production: OIL API Gravity of Liquid/Oil:

Flowing Casing Size	Weight	I.D.	Set At	Perforations	To
<u>5.50</u>	<u>15.50</u>	<u>4.950</u>	<u>5899</u>	<u>5288</u>	<u>5303</u>
Tubing Size	Weight	I.D.	Set At	Perforations	To
<u>2.375</u>	<u>4.70</u>	<u>1.995</u>	<u>5235</u>		

Pretest: Starting Date Time Ending Date Time Duration Hrs.

Test: Starting Date 11-12-96 Time 9:50 A.M. Ending Date 11-13-96 Time 9:50 A.M. Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure	Separator Pressure	Choke Size		
Casing: <u>42</u>	Tubing: <u>46</u>	<u>32</u>		
Bbls./In.	Tank	Starting Gauge	Ending Gauge	Net Prod. Bbls.
Size	Number	Feet	Inches	Barrels
Pretest:				
FIAT Test:	<u>300</u>	<u>8'</u>	<u>5"</u>	<u>166.79</u>
Test:				<u>10'</u>
				<u>8"</u>
				<u>211.99</u>
				<u>—</u>
				<u>45.42</u>

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections	Orifice Meter Range							
Pipe Taps: Flange Taps: Differential: Static Pressure:								
Measuring Device	Run-Prover-Tester	Orifice Size	Meter-Prover-Tester	Pressure	Diff. Press.	Gravity	Flowing	
	Size	Size	In. Water	In. Merc.	Psig or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)
Orifice Meter	<u>3"</u>	<u>1/4"</u>			<u>11</u>	<u>6</u>	<u>.700</u>	<u>60°</u>
Critical Flow Prover							<u>U</u>	
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
<u>7.771</u>	<u>25.4</u>	<u>12.345</u>	<u>1.195</u>	<u>1.000</u>	<u>1.000</u>	<u>—</u>

Gas Prod. MCFD: 115 Oil Prod. Bbls./Day: 45.42 Gas/Oil Ratio (GOR): 2.524 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 15th day of November 1996

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

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Conservation Division

Form C-5 Revised

TYPE TEST: Initial (Annual) Workover Reclassification TEST DATE: 11-14-97

Company: Anadarko Petroleum Corp Lease: Ratcliff Well No.: E-1

County: Morton Location: L60FSL & 1650FEL Section: 03 Township: 33 Range: 40 Acres:

Field: Stirrup Reservoir: Upper Morrow Pipeline Connection: Anadarko Gathering Co.

Completion Date: 12-11-91 Type Completion (Describe): Single Oil Plug Back T.D.: 5380 Packer Set At:

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

Flowing Casing Size	Weight	I.D.	Set At	Perforations	To
5.50	15.50	4.950	5899	5288	5303
Tubing Size	Weight	I.D.	Set At	Perforations	To
2.375	4.70	1.995	5235		

Pretest: Starting Date 11-13-97 Time 11:00 A.M. Ending Date 11-14-97 Time 11:00 A.M. Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure	Separator Pressure			Choke Size						
	Casing:	Tubing:								
Bbls./In.	Tank Size	Number	Starting Gauge Feet	Inches	Barrels	Ending Gauge Feet	Inches	Barrels	Net Prod. Bbls. Water	Oil
Pretest:										
FIAT Test:	300		4	-	79.02	5	11	117.35	Trace	38.33
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range					Static Pressure:	
Pipe Taps:	Flange Taps:	Differential:	Prover-Tester Pressure		Diff. Press.	Gravity	Flowing		
Measuring Device	Run-Tester Size	Orifice Size	(Meter) In. Water	(Prover) In. Merc.	(Paig) or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)	
Orifice Meter	3"	1/4"			11	RECEIVED	.700	60°	
Critical Flow Prover						STATE CORPORATION COMMISSION			
Orifice Well Tester						JAN 13 1998			

GAS FLOW RATE CALCULATIONS (R) CONSERVATION DIVISION

Coeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia)(Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Flow Deviation Factor (Fpv)	Chart Factor (Fd)
7.771	25.4	13.334	1.195	1.000	1.000	-

Gas Prod. MCFD: 124 Oil Prod. Bbls./Day: 38.33 Gas/Oil Ratio (GOR) = 3.235 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 18th day of NOVEMBER 1997

For Offset Operator: *Gay L. Winter* For State: *Don Morgan* For Company:

ANADARKO PETROLEUM CORPORATION

PHONE 316 - 624 - 6253 1701 NORTH KANSAS AVE. P.O. BOX 351 LIBERAL, KANSAS 67905 - 0351



January 9, 1998

Kansas Corporation Commission
Conservation Division
Finney State Office Building
130 South Market, Rm 2078
Wichita, Kansas 67202

Attn: Jim Hemmen

Re: Ratzlaff "E" No. 1
Sec. 03-33S-40W
Morton County, Kansas

Dear Mr. Hemmen:

Enclosed please find an annual Production Test and GOR Report (KCC Form C-5) for the referenced well. Please file accordingly.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Shawn D. Young".

Shawn D. Young
Division Production Engineer
JTC/sjc

Enclosure

cc: Well File
DMF

1-pttest.doc

RECEIVED
STATE CORPORATION COMMISSION

JAN 13 1998

CONSERVATION DIVISION
Wichita, Kansas

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

WF 70

Conservation Division

Form C-5 Revised

TYPE TEST: (Initial) Annual Workover Reclassification TEST DATE: 01-08-92

Company: Anadarko Petroleum Corp. Lease: Ratzlaff E Well No. #1

County: Morton Location: 660 FSL & 1650 FEL Section: 3 Township: 33 Range: 40 Acres

Field: Stirrup Reservoir: U. Morrow Pipeline Connection: N/A

Completion Date: 12-11-91 Type Completion (Describe): Oil Plug Back T.D.: 5380 Packer Set At: N/A

Production Method: Type Fluid Production: Oil API Gravity of Liquid/Oil: 39.6 @ 60°

Flowing (Pumping) Gas Lift Casing Size: 5.500 Weight: 15.5 I.D.: 4.950 Set At: 5899 Perforations: 5288 To: 5303

Tubing Size: 2.375 Weight: 4.70 I.D.: 1.995 Set At: 5235 Perforations: - To: -

Pretest: Starting Date: 1-6-92 Time: 9:30 am Ending Date: 1-7-92 Time: 9:30 am Duration Hrs.: 24

Test: Starting Date: 1-7-92 Time: 9:30 am Ending Date: 1-8-92 Time: 9:30 am Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size			
Casing: 30	Tubing: 30					64/64			
Bbls./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:	300 Flat Middle	3	8 1/2	73.19	8	10	175.60	-0-	102.41
Test:	300 Flat middle	8	10	175.60	13	7	270.46	-0-	94.86
Test:	300 Flat West	1	10	36.11	2	0	39.26	-0-	3.15

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. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)	
Orifice Meter			In. Water In. Merc. Psig or (Pd)				
Critical Flow Prover							
Orifice Well Tester	2	.250		12.5			

GAS FLOW RATE CALCULATIONS (R)

Coeff. (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)
30 34.0	12.5		.9258			

Gas Prod. MCFD: ~~30~~ 31.0 Oil Prod. Bbls./Day: 98.01 Gas/Oil Ratio (GOR) = ~~194~~ 316 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 8th day of January 1992

For Offset Operator: *James R. Hays* For State: *Dawn K. Nease for A.P.C.* 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: 01-08-92

Company: Anadarko Petroleum Corp. Lease: Ratzlaff E Well No. #1

County: Morton Location: 660 FSL & 1650 FEL Section: 3 Township: 33 Range: 40 Acres:

Field: Stirrup Reservoir: U. Morrow Pipeline Connection: N/A

Completion Date: 12-11-91 Type Completion (Describe): Oil Plug Back T.D.: 5380 Packer Set At: N/A

Production Method: Type Fluid Production: Oil API Gravity of Liquid/Oil: 39.6 @ 60°

Flowing (Pumping) Gas Lift

Casing Size	Weight	I.D.	Set At	Perforations	To
5.500	15.5	4.950	5899	5288	5303
Tubing Size	Weight	I.D.	Set At	Perforations	To
2.375	4.70	1.995	5235	-	-

Pretest: Starting Date 1-6-92 Time 9:30 am Ending Date 1-7-92 Time 9:30 am Duration Hrs. 24

Test: Starting Date 1-7-92 Time 9:30 am Ending Date 1-8-92 Time 9:30 am Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure				Separator Pressure				Choke Size		
Casing: 30		Tubing: 30		30		64/64		N/A		
Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:	300 Flat	Middle	3	8 1/2	73.19	8	10	175.60	-0-	102.41
Test:	300 Flat	Middle	8	10	175.60	13	7	270.46	-0-	94.86
Test:	300 Flat	West	1	10	36.11	2	0	39.26	-0-	3.15

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 Pressure In. Water	Tester Pressure In. Merc.	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (F)
Orifice Meter							
Critical Flow Prover							JAN 13 1992
Orifice Well Tester	2	.250			12.5		CONSERVATION DIVISION WICHITA, KS

GAS FLOW RATE CALCULATIONS (R)

Coeff. (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)
20.7	12.5		.9258			

Gas Prod. MCFD: 31 MCFD Oil Prod. Bbls./Day: 98.01 Gas/Oil Ratio (GOR) = 316/98 = 3.22 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 8th day of January 1992

For Offset Operator: *James R. Kapp* For State: *David B. Hance for A.P.C.* For Company:

STATE CORPORATION COMMISSION OF KANSAS, CONSERVATION DIVISION

PRODUCTIVITY TEST
BARREL TEST

OPERATOR _____ LOCATION OF WELL _____
LEASE _____ OF SECTION _____ T _____ R _____
WELL NO. _____ COUNTY _____
FIELD _____ PRODUCING FORMATION _____
Date Taken _____ Date Effective _____
Well Depth _____ Top Prod. Form _____ Perfs _____
Casing: Size _____ Wt. _____ Depth _____ Acid _____
Tubing: Size _____ Depth of Perfs _____ Gravity _____
Pump: Type _____ Bore _____ Purchaser _____
Well Status _____

Pumping, flowing, etc.

TEST DATA

Permanent _____ Field _____ Special _____
Flowing _____ Swabbing _____ Pumping _____

STATUS BEFORE TEST:

PRODUCED _____ HOURS
SHUT IN _____ HOURS

DURATION OF TEST _____ HOURS _____ MINUTES _____ SECONDS

GAUGES: WATER _____ INCHES _____ PERCENTAGE
OIL _____ INCHES _____ PERCENTAGE

GROSS FLUID PRODUCTION RATE (BARRELS PER DAY) _____

WATER PRODUCTION RATE (BARRELS PER DAY) _____

OIL PRODUCTION RATE (BARRELS PER DAY) _____ PRODUCTIVITY

STROKES PER MINUTE _____

LENGTH OF STROKE _____ INCHES

REGULAR PRODUCING SCHEDULE _____ HOURS PER DAY.

COMMENTS _____

WITNESSES:

FOR STATE

FOR OPERATOR

FOR OFFSET

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE: 8-25-93

Company Anadarko Petroleum Corp. Lease Ratzlaff Well No. E-1

County Morton Location 660 FSLY 1650 FEL Section 3 Township 33 Range 40 Acres

Field Stirrup Reservoir U. Morrow Pipeline Connection Centena Energy

Completion Date 12-11-91 Type Completion (Describe) Single oil Plug Back T.D. 5380 Packer Set At -

Production Method: Flowing Pumping Gas Lift Type Fluid Production oil API Gravity of Liquid/Oil 39.6 @ 60°

Casing Size 5.50 Weight 15.5 I.D. 4.950 Set At 5899 Perforations 5288 To 5303

Tubing Size 2.375 Weight 4.70 I.D. 1.995 Set At 5235 Perforations - To -

Pretests: Starting Date 8-24-93 Time 10:30 Ending Date 8-25-93 Time 10:30 Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure 670 Separator Pressure 380 Choke Size 23/64

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	300		1	0	23.96	14	7	295.99		272.03
Test:										

GAS PRODUCTION OBSERVED DATA

Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure		Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
			In. Water	In. Merc.			
Orifice Meter	2	1.25			88.8	82	.700
Critical Flow Prover							
Orifice Well Tester							

GAS FLOW RATE CALCULATIONS (R)

Coeff. (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)
8.329	103.2	91.991	1.195	1.000	1.000	-

Gas Prod. MCFD 916 Oil Prod. Bbls./Day: 272 Gas/Oil Ratio (GOR) = 3366 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 25 day of Aug. 1993

For Offset Operator James R. Ray For State Joe Dougherty For Company

PRODUCTIVITY TEST
BARREL TEST

OPERATOR _____ LOCATION OF WELL _____
 LEASE _____ OF SEC. _____ T _____ R _____
 WELL NO. _____ COUNTY _____
 FIELD _____ PRODUCING FORMATION _____
 Date Taken _____ Date Effective _____
 Well Depth _____ Top Prod. Form _____ Perfs _____
 Casing: Size _____ Wt. _____ Depth _____ Acid _____
 Tubing: Size _____ Depth of Perfs _____ Gravity _____
 Pump: Type _____ Bore _____ Purchaser _____
 Well Status _____
 Pumping, flowing, etc. _____

TEST DATA

Permanent _____ Field _____ Special _____
 Flowing _____ Swabbing _____ Pumping _____

STATUS BEFORE TEST:

PRODUCED _____ HOURS

SHUT IN _____ HOURS

DURATION OF TEST _____ HOURS _____ MINUTES _____ SECONDS

GAUGES: WATER _____ INCHES _____ PERCENTAGE

OIL _____ INCHES _____ PERCENTAGE

GROSS FLUID PRODUCTION RATE (BARRELS PER DAY) _____

WATER PRODUCTION RATE (BARRELS PER DAY) _____

OIL PRODUCTION RATE (BARRELS PER DAY) _____ PRODUCTIVITY

STROKES PER MINUTE _____

LENGTH OF STROKE _____ INCHES

REGULAR PRODUCING SCHEDULE _____ HOURS PER DAY.

COMMENTS _____

WITNESSES:

FOR STATE

FOR OPERATOR

FOR OFFSET