

STATE OF KANSAS - CORPORATION COMMISSION

PRODUCTION TEST & GOR REPORT

15-129-21000-80-80 N-7
Form C-5 Revised

Conservation Division

TYPE TEST: (Initial) Annual Workover Reclassification TEST DATE: 10/31/89

Company Lease Well No.

Anadarko Petroleum Corporation USA "L" 7

County Location Section Township Range Acres

Morton 1650' FEL & 990' FNL 4 33S 40W

Field Reservoir Pipeline Connection

Upper Morrow D J-M Petroleum

Completion Date Type Completion(Describe) Plug Back T.D. Packer Set At

10/6/89 Single Oil 5446

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

Flowing (Pumping) Gas Lift Oil & Water 41.0

Casing Size Weight I.D. Set At Perforations To

4.50 11.6 4.00 5695 5334 5344

Tubing Size Weight I.D. Set At Perforations To

2 3/8 4.70 1.995 5306 -- --

Pretest: Duration Hrs.

Starting Date 10/29/89 Time 11:00 Ending Date 10/30/89 Time 11:00 24

Test: Duration Hrs.

Starting Date 10/30/89 Time 11:00 Ending Date 10/31/89 Time 11:00 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Separator Pressure Choke Size

Casing: 25 Tubing: 25 25 64/64

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:	300	West	0	0	0	2	10	55.69	17.40	55.69
Test:	300	West	2	10	55.69	5	8	112.32	31.90	56.63
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. (hw) or (hd)	Gravity Gas. (Gg)	Flowing Temp. (t)
			In. Water	In. Merc.	Psig or (Pd)			
Orifice Meter						JAN 1 1 1000		
Critical Flow Prover						01-11-90		
Orifice Well Tester	2"	3/8			4"	Wichita, Kas. Assumed	.700	

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)
26.8		--	.9258	1.0	1.0	1.0

Gas Prod. MCFD Flow Rate (R): 26.8
Oil & Gas Conservation Commission
Production Division
Gas/Oil Ratio (GOR) = 438
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 31 day of October 1989

OKLAHOMA CORPORATION

For Offset Operator COMMISSION For State Joe Dougherty For Company

STATE OF KANSAS - CORPORATION COMMISSION FEB 1 1990
 PRODUCTION TEST & GOR REPORT

Conservation Division

Form C-5 Revised

TYPE TEST: Initial (Annual) Workover Reclassification TEST DATE: 02-06-90

Company Lease Well No.

Anadarko Petroleum Corp. U.S.A. L-1

County Location Section Township Range Acres

Morton 1650 FEL-990 FNL 04 335 40W

Field Reservoir Pipeline Connection

Completion Date Type Completion (Describe) Plug Back T.D. Packer Set At

10-06-89 Upper Morrow Single Oil J.M. Petroleum 5446 None

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

Flowing (Pumping) Gas Lift Oil & Water 41.0

Casing Size Weight I.D. Set At Perforations To

4.50 11.6 4.00 5695 5334 5344

Tubing Size Weight I.D. Set At Perforations To

2.375 4.70 1.995 5306

Pretest: Starting Date 02-04-90 Time 11:45am Ending Date 02-05-90 Time 11:45am Duration Hrs. 24

Test: Starting Date 02-05-90 Time 11:45am Ending Date 02-06-90 Time 11:45am Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Separator Pressure Choke Size

Casing: 63 Tubing: 2 1/2" 3 1/2"

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	300	East	6	03	125.25	8'	11"	178.69	25.00	53.44
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. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
			In. Water	In. Merc.	Psig or (Pd)			
Orifice Meter								
Critical Flow Prover								
Orifice Well Tester	2"	1/4"			4"		Assumed .700	60°

GAS FLOW RATE CALCULATIONS (R)

Coef. MCFD (OWTC)	Meter-Prover Press. (Psia) (Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
12.6	FED	XXXXXXXXXX	.9258	1.0	1.0	1.0

Gas Prod. MCFD Flow Rate (R) 11.66 1990 Oil Prod. Bbls./Day: 53.44 Gas/Oil Ratio (GOR) = 218 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 6th day of February 1990

For Offset Operator: James R. Papp For State: Dawn K. Nease For Company:

STATE CORPORATION COMMISSION OF KANSAS, CONSERVATION DIVISION

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: 10-5-94

Company Anadarko Petroleum Corp. Lease 215A Well No. L-1

County Morton Location Section 04 Township 33 Range 40 Acres

Field Stirrup Reservoir Upper Morrow Pipeline Connection Anadarko Gathering Co.

Completion Date 10-6-89 Type Completion(Describe) Single Oil Plug Back T.D. 5446 Packer Set At

Production Method: Type Fluid Production Oil API Gravity of Liquid/Oil 41 @ 60

Flowing Pumping Gas Lift Casing Size 4.50 Weight 11.6 I.D. 4.00 Set At 5695 Perforations 5334 To 5344

Tubing Size 2.375 Weight 4.70 I.D. 1.995 Set At 5306 Perforations To

Pretest: Starting Date 10/4/94 Time 9:30 Am Ending Date 10/5/94 Time 9:30 Am Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Separator Pressure Choke Size
 Casing: 120 Tubing: 34 36

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	300		3	2"	62.36	12'	10"	235.51	90	83.15
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-Tester Pressure			Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
			In. Water	In. Merc.	Psig or (Pd)			
Orifice Meter	2	1.375			41.6 [#]	10"	.888	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 (Fpv)	Chart Factor (Fd)
10.46	56.0	23.664	1.061	1.000	1.000	

Gas Prod. MCFD Flow Rate (R): 262 Oil Prod. Bbls./Day: 83.15 Gas/Oil Ratio (GOR) = 3150 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 T. Kenfro 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: 10-6-94
 Company: Gradako Petroleum Corp. Lease: USA Well No.: L-1
 County: MORTON Location: 04 Section: 33 Township: 40 Range: 40 Acres:
 Field: Skirrup Reservoir: Upper Morrow Pipeline Connection: Gradako Gathering Co.
 Completion Date: 10-6-89 Type Completion(Describe): Single Oil Plug Back T.D.: 5446 Packer Set At:
 Production Method: Oil Type Fluid Production: Oil API Gravity of Liquid/Oil: 41.0 @ 60°
 Flowing Pumping Gas Lift
 Casing Size: 4.50 Weight: 11.6 I.D.: 4.0 Set At: 5695 Perforations: 5334 To: 5344
 Tubing Size: 2.375 Weight: 4.70 I.D.: 1.995 Set At: 5306 Perforations: To

Pretests:
 Starting Date: Time: Ending Date: Time: Duration Hrs.:
 Test: Starting Date: 10/5/94 Time: 9:30 Am Ending Date: 10/6/94 Time: 9:30 Am Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size				
Casing:	<u>32</u>	Tubing:	<u>32</u>	<u>42#</u>						
Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	<u>FLAT</u>	<u>300</u>	<u>9</u>	<u>8 3/4"</u>	<u>193.49</u>	<u>11</u>	<u>9</u>	<u>233.85</u>	<u>16.3</u>	<u>24.0</u>
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections				Orifice Meter Range			
Pipe Taps:	Flange Taps:	<u>X</u>	Differential:	<u>100</u>	Static Pressure:	<u>250</u>	
Measuring Device	Run-Prover-Tester Size	Orifice Meter Size	Prover-Tester Pressure	Diff. Press.	Gravity	Flowing	
			In.Water In.Merc. Psig or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)	
Orifice Meter	<u>2</u>	<u>1.375</u>	<u>47#</u>	<u>9.6"</u>	<u>.888</u>	<u>60°</u>	
Critical Flow Prover							
Orifice Well Tester							

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD	(Meter) Prover	Extension	Gravity	Flowing Temp.	Deviation	Chart
(Fb)(Fp)(OWTC)	Press.(Psia)(Pm)	√hw x Pm	Factor (Fg)	Factor (Ft)	Factor (Fpv)	Factor(Fd)
<u>10.46</u>	<u>61.4#</u>	<u>24.278</u>	<u>1.061</u>	<u>1.000</u>	<u>1.000</u>	<u>—</u>
Gas Prod. MCFD	Oil Prod.	Gas/Oil Ratio				
Flow Rate (R): <u>269</u>	Bbls./Day: <u>24.0</u>	(GOR) = <u>11.20</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 6th day of Oct 1994

For Offset Operator: Albert J. Kendro For State: Wayne S. Kishi 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 _____

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Conservation Division

Form C-5 Revised

TYPE TEST: Initial (Annual) Workover Reclassification TEST DATE: 2-6-96

Company Anadarko Petroleum Corporation Lease USA Well No. L-1

County MORTON Location 1650 FEL + 990 FNL Section 04 Township 33 Range 40 Acres

Field Stirrup Reservoir Upper Morrow Pipeline Connection Anadarko Gathering Co.

Completion Date 10-6-89 Type Completion (Describe) Single O.I. Plug Back T.D. 5446 Packer Set At

Production Method: Flowing Pumping Gas Lift Type Fluid Production Oil API Gravity of Liquid/Oil 41 @ 60°

Casing Size 4.50 Weight 11.6 I.D. 4.00 Set At 5695 Perforations 5334 To 5344

Tubing Size 2.375 Weight 4.70 I.D. 1.995 Set At 5306 Perforations To

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

Test: Starting Date 2-5-96 Time 9:00 Am Ending Date 2-6-96 Time 9:00 Am Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Casing: 105 Tubing: 30# Separator Pressure 30# Choke Size

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Flat Test:	300		6	1	120.65	7	9	153.95	15.82	33.30
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 In.Water In.Merc. (Psig) or (Pd)	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)	
Orifice Meter	2	1.375	39#	3"	.888	60°	
Critical Flow Prover					15		
Orifice Well Tester					15		

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia)(Pm)	Extension V/hw x Pm	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
10.46	53.4	12.657	1.061	1.000	1.000	

Gas Prod. MCFD Flow Rate (R): 140 Oil Prod. Bbls./Day: 33.30 Gas/Oil Ratio (GOR) = 4,204 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 9th day of February 19 96

Wayne L. Koshi
 For Company

For Offset Operator

For State

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

TEST: Initial (Annual) Workover Reclassification TEST DATE:

Company: Anadarko Petroleum Corp. Lease: 215A L-1 Well No.:

County: McPherson Location: 1650' FEL + 990' FNL Section: 04 Township: 33 Range: 40W Acres:

Field: Stirrup Reservoir: Upper Morrow D Pipeline Connection: Centana Energy (Stirrup, Gath)

Completion Date: 10-6-89 Type Completion (Describe): Single Oil Plug Back T.D.: 5446 Packer Set At:

Production Method: Pumping Type Fluid Production: Oil + Water API Gravity of Liquid/Oil: 41.0 @ 60°

Flowing Line Size: 4.50 Weight: 11.6 I.D.: 4.0 Set At: 5695 Perforations: 5334 To: 5344

Flowing Line Size: 2.375 Weight: 4.70 I.D.: 1.995 Set At: 5306 Perforations: To:

Test: Starting Date: 9-25-93 Time: 10:00 AM Ending Date: 9-26-93 Time: 10:00 AM Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure		Choke Size							
Flowing:	<u>36</u>	Tubing:	<u>36</u>		<u>32</u>						
Size/In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.			
	Size Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil		
Test:											
Flowing:	<u>Flat</u>	<u>300</u>	<u>East</u>	<u>2</u>	<u>0 1/4</u>	<u>39.65</u>	<u>5</u>	<u>6 1/2</u>	<u>109.82</u>	<u>55.00</u>	<u>70.17</u>

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range					
Flange Taps:	Flange Taps: <input checked="" type="checkbox"/>		Differential:		Static Pressure:			
Measuring Orifice	Run-Prover Orifice	Prover-Tester Orifice	Tester Pressure	Diff. Press.	Gravity	Flowing		
Size	Tester Size	Size	In. Water	In. Merc.	Psig or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)
Orifice	<u>2</u>	<u>1.50</u>			<u>120</u>	<u>1.4</u>	<u>88</u>	
Flow Prover							RECEIVED STATE CORPORATION COMMISSION OCT 06 1993	
Orifice								
Flow Tester								

GAS FLOW RATE CALCULATIONS (R)

Flow Rate (R)	Meter-Prover Press. (Psia)	Extension Vhw x Pm	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
<u>13.09</u>	<u>134</u>	<u>13.78</u>	<u>1.061</u>	<u>1.000</u>	<u>1.000</u>	<u>—</u>
Oil Prod. Ebls./Day:	<u>180</u>	<u>70.12</u>	<u>2567</u>	Gas/Oil Ratio (GOR) =		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 the report is true and correct. Executed this the 30th day of Sept 1993

For Offset Operator: James Krapp For State
 For Company: Allen Kashi

Conservation Division

Form C-5 Revised

TYPE TEST: (Initial) Annual Workover Reclassification TEST DATE: 02-06-90

Company: Anadarko Petroleum Corporation Lease: U.S.A. "L" Well No.: 1

County: Morton Location: 1650' FEL & 990' FNL Section: 04 Township: 33S Range: 40W Acres:

Field: Reservoir: Upper Morrow D Pipeline Connection: J. M. Petroleum

Completion Date: Type Completion(Describe): Plug Back T.D. Packer Set At:

Production Method: Flowing Pumping Gas Lift Type Fluid Production: Oil & Water API Gravity of Liquid/Oil: 41.0

Casing Size: 4.50 Weight: 11.6 I.D.: 4.00 Set At: 5695 Perforations: 5334 To: 5344

Tubing Size: 2.375 Weight: 4.70 I.D.: 1.995 Set At: 5306 Perforations: To:

Pretest: Starting Date 02-04-90 Time 11:45 a.m. Ending Date 02-05-90 Time 11:45 a.m. Duration Hrs. 24

Test: Starting Date 02-05-90 Time 11:45 a.m. Ending Date 02-06-90 Time 11:45 a.m. Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure			Choke Size				
Casing: 63	Tubing:	31#							
Bbls./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:									
Test:	300 East	6	03	125.25	8'	11"	178.69	25.00	53.44
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								
Critical Flow Prover								
Orifice Well Tester	2"	1/4		4"			Assumed .700	60°

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psta)(Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
12.6		X	.9258	1.0	1.0	1.0

Gas Prod. MCFD: 11.66 Oil Prod. Bbls./Day: 53.44 Gas/Oil Ratio (GOR) = 218 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 report is true and correct. Executed this the 6th day of February 19 90

James R. Kapp

Dawn R. Nease

For Offset Operator

For State
 ORIG. TO CORP. COMM.
 3-16-90

For Company

Form C-5 (5/88)

DATE

**STATE OF KANSAS - CORPORATION COMMISSION
PRODUCTION TEST & GOR REPORT**

Form C-5 Revised

Conservation Division Form C-5 Revised
TYPE TEST: (Initial) Annual Workover Reclassification **TEST DATE:** 02-06-90
Company Anadarko Petroleum Corporation **Lease** U.S.A. "L" **Well No.** 1
County Morton **Location** 1650' FEL & 990' FNL **Section** 04 **Township** 33S **Range** 40W **Acres**
Field **Reservoir** Upper Morrow D **Pipeline Connection** J. M. Petroleum
Completion Date **Type Completion(Describe)** **Plug Back T.D.** **Packer Set At**

Production Method: Pumping **Type Fluid Production** **API Gravity of Liquid/Oil** 41.0
Flowing Pumping **Gas Lift** **Oil & Water**
Casing Size **Weight** **I.D.** **Set At** **Perforations** **To**
 4.50 11.6 4.00 5695 5334 5344
Tubing Size **Weight** **I.D.** **Set At** **Perforations** **To**
 2.375 4.70 1.995 5306

Pretest: **Starting Date** 02-04-90 **Time** 11:45 a.m. **Ending Date** 02-05-90 **Time** 11:45 a.m. **Duration Hrs.** 24
Test: **Starting Date** 02-05-90 **Time** 11:45 a.m. **Ending Date** 02-06-90 **Time** 11:45 a.m. **Duration Hrs.** 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size				
Casing:	63	Tubing:	31#							
Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	300	East	6	03	125.25	8'	11"	178.69	25.00	53.44
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 In. Merc.	Pressure Psig or (Pd)	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
Orifice Meter								
Critical Flow Prover								
Orifice Well Tester	2"	1/4		4"			Assumed .700	60°

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (F ₁)(F ₂)(OWTC)	Meter-Prover Press. (P _{sta})(P _m)	Extension $\sqrt{hw \times P_m}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
12.6		 	.9258	1.0	1.0	1.0

Gas Prod. MCFD **Oil Prod. Bbls./Day:** 53.44 **Gas/Oil Ratio (GOR) =** 218 **Cubic Ft. per Bbl.**
Flow Rate (R): 11.66

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 6th day of February 19 90

For Offset Operator James Kapp Dawn R. Nease
 For State For Company
 CONSERVATION DIVISION
 Wichita, Kansas Form C-5 (5/88)

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

OCT 1 1989

N-P

Conservation Division

Form C-5 Revised

TYPE TEST: (Initial) Annual Workover Reclassification TEST DATE: 10-31-89

Company Anadarko Petroleum Lease U.S.A. L-1 Well No. 1

County Wichita Location 1650 FEL-990FNL Section 4 Township 33S Range 40W Acres

Field upper morrow D Reservoir Single oil Pipeline Connection J-M Petroleum

Completion Date 10-6-89 Type Completion(Describe) Single oil Plug Back T.D. 5446 Packer Set At

Production Method: Pumping Gas Lift Type Fluid Production Oil + water API Gravity of Liquid/Oil 41.0

Casing Size 4.50 Weight 11.6 I.D. 4.00 Set At 5695 Perforations 5334 To 5344

Tubing Size 2 3/8 Weight 4.70 I.D. 1.995 Set At 5306 Perforations - To -

Pretest: Starting Date 10-29-89 Time 11:00 Ending Date 10-30-89 Time 11:00 Duration Hrs. 24

Test: Starting Date 10-30-89 Time 11:00 Ending Date 10-31-89 Time 11:00 Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure 25 Separator Pressure 25 Choke Size 6 1/64

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:	300	West	0	0	0	2'	10"	55.69	17.40	55.69
Test:	300	West	2'	10"	55.69	5'	8"	112.32	31.90	56.63
Test:										

GAS PRODUCTION OBSERVED DATA

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

Measuring Device	Run-Prover-Tester	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								
Critical Flow Prover								
Orifice Well Tester	<u>2"</u>	<u>3/8</u>			<u>4"</u>		<u>Assumed .700</u>	<u>60°</u>

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)	MCFD (Fp)	Meter-Prover Press. (Psia)	Extension (Pm)	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
<u>26.8</u>				<u>.9258</u>	<u>1.0</u>	<u>1.0</u>	<u>1.0</u>

Gas Prod. MCFD 24.8 Oil Prod. Bbls./Day: 56.63 Gas/Oil Ratio (GOR) = 438 Cubic Ft. per Bbl.

The undersigned Joe Doughterty, 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 31 day of October 1989

For Offset Wichita, Kansas For State Joe Doughterty For Company Joe Doughterty

CONSERVATION DIVISION
 Wichita, Kansas

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division
 TEST: Initial (Annual) Workover Reclassification TEST DATE:
 Lease Well No.
 Company: Ameranko Petroleum Corp. Lease: 215A L-1
 County: Morton Location: 1650' FEL + 990' FNL Section: 04 Township: 33 Range: 40W
 Field: Stirrup Reservoir: Upper Morrow D Pipeline Connection: Centana Energy (Stirrup Gath)
 Completion Date: 10-6-89 Type Completion (Describe): Single Oil Plug Back T.D.: 5446 Packer Set At:
 Production Method: Pumping Type Fluid Production: Oil + Water API Gravity of Liquid/Oil: 41.0 @ 60°
 Flowing Size: 4.50 Weight: 11.6 I.D.: 4.0 Set At: 5695 Perforations: 5334 To: 5344
 Tubing Size: 2.375 Weight: 4.70 I.D.: 1.995 Set At: 5306 Perforations: To

Test: Duration Hrs.
 Starting Date Time Ending Date Time
 Starting Date 9-25-93 Time 10:00 AM Ending Date 9-26-93 Time 10:00 AM Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure		Choke Size					
Flowing:	<u>36</u>	Tubing:	<u>36</u>		<u>32</u>				
Size/In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Test: <u>Flat</u>	<u>300 East</u>	<u>2</u>	<u>0 1/4</u>	<u>39.65</u>	<u>5</u>	<u>6 1/2</u>	<u>109.82</u>	<u>55.00</u>	<u>70.17</u>

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range				
Be Taps:	Flange Taps: <input checked="" type="checkbox"/>		Differential: <u>100</u>		Static Pressure: <u>250</u>		
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure In. Water	Pressure In. Merc.	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
Orifice Meter	<u>2</u>	<u>1.50</u>			<u>120</u>	<u>1.4</u>	<u>.888</u>
Critical Flow Prover							
Orifice Full Tester							

GAS FLOW RATE CALCULATIONS (R)

Eff. MCFD (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>13.09</u>	<u>134</u>	<u>13.78</u>	<u>1.061</u>	<u>1.000</u>	<u>1.000</u>	<u>—</u>
Gas Prod. MCFD	<u>180</u>	Oil Prod. Bbls./Day:	<u>70.12</u>	Gas/Oil Ratio (GOR) =	<u>2567</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 30th day of Sept, 1993

For Offset Operator: James R. Papp For State
 For Company: James L. Koch

RECEIVED
 STATE CORPORATION COMMISSION
 OCT 21 1993