

STATE OF KANSAS - CORPORATION COMMISSION  
 PRODUCTION TEST & GOR REPORT

15-129-21167-0000 Form C-5 Revised

Conservation Division

TYPE TEST: Initial (Annual) Workover Reclassification TEST DATE: 11-12-97

Company: Anadarko Petroleum Corp Lease: USA Well No.: I4

County: Morton Location: 81DFNL & 96DFWL Section: 03 Township: 33 Range: 40 Acres:

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

Completion Date: 2-16-93 Type Completion (Describe): Single Oil Plug Back T.D.: 5356 Packer Set At:

Production Method: Pumping Type Fluid Production: Oil API Gravity of Liquid/Oil: 35.2 @ 60°

Flowing Casing Size: 5.50 Weight: 15.5 I.D.: 4.095 Set At: 5437 Perforations: 5258 To: 5272

Tubing Size: 2.875 Weight: 6.40 I.D.: 2.441 Set At: 5226 Perforations: To:

Pretest: Starting Date: 11-10-97 Time: 9:15AM Ending Date: 11-11-97 Time: 9:15AM 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
Pretest:				
TANK Test:	300	6	9 1/4	134.38
Test:				

Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
8	7 7/8	172.00	1.98	37.62			

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	2"	1.25	35	13.9"	.876	60°
Critical Flow Prover						
Orifice Well Tester						

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia) (Pm)	Extension √hw x Pm	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
8.329	49.4	26.204	1.068	1.000	1.000	—

Gas Prod. MCFD: 233 Oil Prod. Bbls./Day: 37.62 Gas/Oil Ratio (GOR): 6.193

Flow Rate (R): 233 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 18<sup>th</sup> day of NOVEMBER 1997

For Offset Operator: Gary L. Winters For State: Don Morgan For Company: 01-13-98

**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: USA "T" No. 4  
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 OF KANSAS  
CONSERVATION DIVISION

JAN 13 1998

CONSERVATION DIVISION  
Wichita, Kansas

STATE OF KANSAS - CORPORATION COMMISSION  
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

TYPE TEST: Initial (Annual) Workover Reclassification TEST DATE: 11-12-97

Company: Anadarko Petroleum Corp Lease: USA Well No. I4

County: Morton Location: 810FWL & 960FWL Section: 03 Township: 33 Range: 40 Acres: [blank]

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

Completion Date: 2-16-93 Type Completion (Describe): Single Oil Plug Back T.D.: 5356 Packer Set At: [blank]

Production Method: [blank] Type Fluid Production: Oil API Gravity of Liquid/Oil: 35.2 @ 60°

Flowing (Pumping) Gas Lift Casing Size: 5.50 Weight: 15.5 I.D.: 4.095 Set At: 5437 Perforations: 5258 To: 5272

Tubing Size: 2.875 Weight: 6.40 I.D.: 2.441 Set At: 5224 Perforations: [blank] To: [blank]

Pretest: Starting Date 11-10-97 Time 9:15AM Ending Date 11-11-97 Time 9:15AM Duration Hrs. 24

Test: Starting Date 11-10-97 Time 9:15AM Ending Date 11-11-97 Time 9:15AM Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure			Choke Size				
Casing:	Tubing:								
Bbls./In.	Tank Size	Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:									
TANK Test:	300	6	9 1/4	134.38	8	7 7/8	172.00	1.98	37.62
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) Size	Pressure	Diff. Press.	Gravity	Flowing	
		in.	in.	(hg) or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)	
Orifice Meter	2"	1.25	DEE	D 1997	35	13.9"	.876	60°
Critical Flow Prover			CONSERVATION DIVISION					
Orifice Well Tester			Wichita Kansas					

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)
(OWTC)			√hw x Pm				
8.329	49.4		26.204	1.068	1.000	1.000	—

Gas Prod. MCFD: 233 Oil Prod. Bbls./Day: 37.62 Gas/Oil Ratio (GOR) = 6.193 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 18<sup>th</sup> day of NOVEMBER 1997

For Offset Operator: Gary L. Winters 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: 11-22-96

Company Anadarko Petroleum Corp. Lease USA Well No. I4

County Morton Location 810.FNL & 960.FWL Section 3 Township 33 Range 40 Acres

Field Stirrup Reservoir Upper Morrow Pipeline Connection Anadarko Gathering Co.

Completion Date 2-16-93 Type Completion (Describe) Single Oil Plug Back T.D. 5356 Packer Set At

Production Method: Pumping Type Fluid Production Oil API Gravity of Liquid/Oil 35.2 @ 60°

Flowing Casing Size 5.50 Weight 15.5 I.D. 4.095 Set At 5437 Perforations 5258 To 5272

Tubing Size 2.875 Weight 6.40 I.D. 2.441 Set At 5226 Perforations To

Pretest: Starting Date Time Ending Date Time Duration Hrs.

Test: Starting Date 11-21-96 Time 10:00 AM Ending Date 11-22-96 Time 10:00 AM Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Separator Pressure Choke Size

Casing: 68 Tubing: 68

Bbls./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.		
		Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water
Pretest:										
Meter Test:	300			9714.7		9782.5			25.08	42.72
Tank Test:	306	3	3 3/8		S	S				42.72

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections: Orifice Meter Range

Pipe Taps: Flange Taps: X Differential: Static Pressure:

Measuring Device	Run-Prover Tester	Orifice Meter Size	Meter-Prover Pressure			Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
			In. Water	In. Merc.	Psig or (Pd)			
Orifice Meter	2	1"			55	24	.876	60°
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Pgia)(Pm)	Extension $\sqrt{hw \times Rm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
5.073	69.4	40.811	1.068	1.000	1.000	—

Gas Prod. MCFD Flow Rate (R): 221 Oil Prod. Bbls./Day: 42.72 Gas/Oil Ratio (GOR) = 5.175 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 25th day of November 1996

For Offset Operator: *Don Morgan* For State: *Don Morgan* For Company: *Don Morgan*

STATE OF KANSAS - CORPORATION COMMISSION  
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

TYPE TEST: (Initial) Annual Workover Reclassification TEST DATE: 2-25-93

Company Lease Well No.

Anadarko Petroleum Corp. U.S.A. I-4

County Location Section Township Range Acres

Morton 810 FNL & 960 FWL 3 33 40

Field Reservoir Pipeline Connection

Stirrup U. Morrow D Centanna Energy

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

2-16-93 Single Oil 5356

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

Flowing Pumping Gas Lift Oil 35.2 @ 60°

Casing Size Weight I.D. Set At Perforations To

5.50 15.5 4.095 5437 5258 5272

Tubing Size Weight I.D. Set At Perforations To

2.875 6.40 2.441 5226

Pretest: Duration Hrs.

Starting Date Time Ending Date Time

Test: Duration Hrs.

Starting Date 2-24-93 Time 10:30am Ending Date 2-25-93 Time 10:30am 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Separator Pressure Choke Size

Casing: 55 Tubing: 55 64/64

Bbls./In.	Tank			Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil	
Pretest:											
Test:		Barrel Meter			34270			34411	Trace	141.0	
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	2.00	.625		27.6	30	.867	60
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)
1.914	42.0	35.496	1.074	1.00	1.00	RECEIVED

Gas Prod. MCFD Oil Prod. Gas/Oil Ratio Cubic Ft. Flow Rate (R): 73.0 Bbls./Day: 141.0 (GOR) = 518 MBBL 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 Feb, 1993, Wichita, Kansas.

For Offset Operator

For State

For Company

**ANADARKO PETROLEUM CORPORATION**

PHONE 316-624-6253    2330 NORTH KANSAS AVE.    P.O. BOX 351    LIBERAL, KANSAS 67905-0351



March 30, 1993

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

Attention: Jim Hemmen

Re: Well Test Data  
USA "I" No. 4  
Section 3-33S-40W  
Morton County, Kansas

Gentlemen:

Enclosed is the Initial Production Test and GOR Report on the above referenced well.

Very truly yours,

A handwritten signature in cursive script that reads "Mark Rinehart".

Mark Rinehart  
Staff Production Engineer  
BJW/km

Enclosure

cc: Well File  
Technician  
R. Pratt - Houston

RECEIVED  
STATE CORPORATION COMMISSION

MAR 31 1993

CONSERVATION DIVISION  
Wichita, Kansas

STATE OF KANSAS - CORPORATION COMMISSION  
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Observation Division

TEST TYPE: Initial Annual Workover Reclassification TEST DATE:

Company: Quadraco Petroleum Corp Lease: 215A I Well No.: 4

County: Morton Location: 03 Section: 03 Township: 33 Range: 40 Acres:

Field: Stirrup Reservoir: Upper Morrow D Pipeline Connection: Centanna Energy

Completion Date: 2-16-93 Type Completion (Describe): Single Oil Plug Back T.D.: 5356 Packer Set At: —

Production Method: Pumping Gas Lift: — API Gravity of Liquid/Oil: 35.2 @ 60°

Flowing Size: 5.50 Weight: 15.5 I.D.: 4.095 Set At: 5437 Perforations: 5258 To: 5272

tubing Size: 2.875 Weight: 6.40 I.D.: 2.441 Set At: 5226 Perforations: — To: —

Test: — Duration Hrs.:

Starting Date: — Time: — Ending Date: — Time: —

Test: — Duration Hrs.:

Starting Date: 9-26-93 Time: 10:00 AM Ending Date: 9-27-93 Time: 10:00 A Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure			Choke Size				
Flowing:	<u>80</u>	Tubing:	<u>80</u>		<u>40</u>				
ls./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Test:									
Test:	<u>FIAT 300 EAST</u>	<u>8</u>	<u>3 1/2</u>	<u>164.77</u>	<u>13</u>	<u>6 1/2</u>	<u>269.63</u>	<u>—</u>	<u>105</u>
Test:									

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range					
Well Taps:	Flange Taps:		Differential:	<u>100</u>	Static Pressure:	<u>250</u>		
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)	Temp. (t)
Orifice Meter	<u>2</u>	<u>1.50</u>			<u>130</u>	<u>2.1</u>	<u>60</u>	
Orifice Meter								
Orifice Meter								
Orifice Meter								

GAS FLOW RATE CALCULATIONS (R)

eff. MCFD	Meter-Prover	Extension	Gravity	Flowing Temp.	Deviation	Chart
b)(Fp)(OWTC)	Press.(Psia)(Pm)	√hw x Pm	Factor (Fg)	Factor (Ft)	Factor (Fpv)	Factor (Fd)
<u>13.09</u>	<u>134</u>	<u>19.09</u>	<u>1.074</u>	<u>1.000</u>	<u>1.000</u>	<u>—</u>
Gas Prod. MCFD	Oil Prod. Bbls./Day:	Gas/Oil Ratio (GOR) =	Cubic Ft. per Bbl.			
<u>250</u>	<u>105</u>	<u>2380</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 this report is true and correct. Executed this the 30 day of Sept. 19 93

For Offset Operator: James P. King 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: 10-5-94

Company Anadarko Petroleum Corporation Lease USA Well No. I-4

County MORTON Location 810 FNL + 960 FWL Section 3 Township 33 Range 40 Acres

Field Stirrup Reservoir Upper Morrow Pipeline Connection Anadarko Gathering Co

Completion Date 2-16-93 Type Completion (Describe) Single Oil Plug Back T.D. 5356 Packer Set At

Production Method: Pumping Type Fluid Production Oil API Gravity of Liquid/Oil 35.2 @ 60°

Flowing Casing Size 5.50 Weight 15.5 I.D. 4.095 Set At 5437 Perforations 5258 To 5272

Tubing Size 2.875 Weight 6.40 I.D. 2.441 Set At 5226 Perforations To

Pretest: Starting Date 10/4/94 Time 8:30 A Ending Date 10/5/94 Time 8:30 A Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure 130 Separator Pressure 38# Choke Size ---

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
<u>mtr</u>	<u>300</u>	<u>---</u>	<u>6</u>	<u>4"</u>	<u>125.64</u>	<u>8</u>	<u>9"</u>	<u>173.93</u>	<u>---</u>	<u>48.29</u>
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections X Orifice Meter Range 100 Static Pressure: 250

Measuring Device	Run-Prover-Tester Size	Orifice Meter Size	Prover-Tester Pressure		Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
			In. Water	In. Merc. Psig or (Pd)			
Orifice Meter	<u>2</u>	<u>1.375</u>		<u>48.0</u>	<u>4.1</u>	<u>.876</u>	<u>60°</u>
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)
<u>10.46</u>	<u>62.4</u>	<u>15.994</u>	<u>1.068</u>	<u>1.000</u>	<u>1.000</u>	<u>---</u>

Gas Prod. MCFD 178. Oil Prod. Bbls./Day: 48.29 Gas/Oil Ratio (GOR) = 3.686 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 J. Hendon For State  
Mary J. Koshi 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

Conservation Division

Form C-5 Revised

TYPE TEST: Initial (Annual) Workover Reclassification TEST DATE: 6-14-96  
 Company: Anadarko Petrol. Corp. Lease: USA Well No.: I-4  
 County: Morton Location: 810 FNL + 960 FWL Section: 3 Township: 33 Range: 40 Acres:  
 Field: Stirrup Reservoir: Upper Morrow Pipeline Connection: Anadarko Gathering Co.  
 Completion Date: 2-16-93 Type Completion (Describe): Single oil Plug Back T.D.: 5343 Packer Set At:  
 Production Method: Flowing Pumping Gas Lift Type Fluid Production: oil API Gravity of Liquid/Oil: 35.2 @ 60°  
 Casing Size: 5.5 Weight: 15.5 I.D.: 4.095 Set At: 5437 Perforations: 5230 To: 5272  
 Tubing Size: 2.875 Weight: 6.40 I.D.: 2.441 Set At: 5243 Perforations: To:  
 Pretest: Starting Date: 6-13-96 Time: 10:45 AM Ending Date: 6-14-96 Time: 10:45 AM Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size			
Casing:	55	Tubing:	55	25	64/164				
Bbls./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:									
FLAT Test:	300 Oil	3'	3"	64.03	5	11	117.32		53.29
Test:	Water	2'	7"		2	7 1/2"		1.4	

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections				Orifice Meter Range			
Pipe Taps:	Flange Taps:	X	Differential:	100	Static Pressure:	250	
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure		Diff. Press.	Gravity Gas (Gg)	Flowing Temp. (t)
			In. Water	In. Merc.	(Psig) or (Pd)	(hw) or (hd)	
Orifice Meter ✓	2"	1.50			12.45	20.81	74.9
Critical Flow Prover							
Orifice Well Tester							

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)	MCFD (Fp)	Meter-Prover Press. (Psia) (Pm)	Extension (Ft) (Fp)	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
			√hw x Pm				
13.090		26.85	23.637	1.155	.9804	1.000	—
Gas Prod. MCFD	351	Oil Prod. Bbls./Day:	53.29	Gas/Oil Ratio (GOR) =	6.586	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 14th day of June, 1996

For Offset Operator

Gay Winter  
 For State

For Company  
 APC

STATE OF KANSAS - CORPORATION COMMISSION  
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

TYPE TEST: (Initial) Annual Workover Reclassification TEST DATE: 2-25-93

Company Lease Well No.

Anadarko Petroleum Corp. U.S.A. I-4

County Location Section Township Range Acres

Morton 810 FNL & 960 FWL 3 33 40

Field Reservoir Pipeline Connection

Stivrup U. Morrow D Centanna Energy

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

2-16-93 Single Oil 5356 -

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

Flowing Pumping Gas Lift Oil 35.2 @ 60°

Casing Size Weight I.D. Set At Perforations To

5.50 15.5 4.095 5437 5258 5272

Tubing Size Weight I.D. Set At Perforations To

2.875 6.40 2.441 5226 - -

Pretest: Starting Date Time Ending Date Time Duration Hrs.

Test: Starting Date 2-24-93 Time 10:30am Ending Date 2-25-93 Time 10:30am Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Separator Pressure Choke Size

Casing: 55 Tubing: 55 64/64

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:		Barrel Meter			34270			34411	Trace	141.0
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	2.00	6.25			27.6	30	.867	60
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia) (Pm)	Extension √hw x Pm	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
1.914	42.0	35.496	1.074	1.00	1.00	-

Gas Prod. MCFD Flow Rate (R): 73.0 Oil Prod. Bbls./Day: 141.0 Gas/Oil Ratio (GOR) - 518 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 Feb 1993

James R. Kopp RECEIVED CORPORATION COMMISSION For State Joe Daugherty For Company

MAR 31 1993

Form C-5 (5/88)

STATE OF KANSAS - CORPORATION COMMISSION  
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

TEST DATE: Annual Workover Reclassification

Company: Quadar Ko Petroleum Corp. Lease: 215A I Well No.: 4

County: Morton Location: 0.3 Township: 3.3 Range: 40 Acres: —

Field: Stirrup Reservoir: Upper Morrow D Pipeline Connection: Centanna Energy

Completion Date: 2-16-93 Type Completion (Describe): Single Oil Plug Back T.D.: 5.356 Packer Set At: —

Production Method: Pumping Type Fluid Production: Single Oil API Gravity of Liquid/Oil: 35.2 @ 60°

Flowing Line Size: 5.50 Weight: 15.5 I.D.: 4.095 Set At: 5437 Perforations: 5258 To: 5272

Tubing Size: 2.875 Weight: 6.40 I.D.: 2.441 Set At: 5226 Perforations: — To: —

Test: 2-16-93 Starting Date: 9-26-93 Time: 10:00 AM Ending Date: 9-27-93 Time: 10:00 A Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure		Separator Pressure			Choke Size					
Flowing:	<u>80</u>	Tubing:	<u>80</u>			<u>—</u>				
Wells./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.		
Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil	
Test:										
Test:	<u>FIAT 300</u>	<u>EAST</u>	<u>8</u>	<u>3 1/2</u>	<u>164.77</u>	<u>13</u>	<u>6 1/2</u>	<u>269.63</u>	<u>—</u>	<u>105</u>
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range					
Line Taps:	Flange Taps: <u>✓</u>		Differential: <u>100</u>			Static Pressure: <u>2.50</u>		
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>2</u>	<u>1.50</u>			<u>120</u>	<u>2.1</u>	<u>.867</u>	<u>60</u>
Critical Flow Prover								
Orifice								
Full Tester								

GAS FLOW RATE CALCULATIONS (R)

Eff. MCFD (b)(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>19.09</u>	<u>1.074</u>	<u>1.000</u>	<u>1.000</u>	<u>—</u>
Gas Prod. MCFD	Oil Prod. Bbls./Day:	Gas/Oil Ratio (GOR) =	Cubic Ft. per Bbl.			
<u>250</u>	<u>105</u>	<u>2380</u>	<u>—</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 the report is true and correct. Executed this the 30 day of Sept. 1993

For Offset Operator: James Prank For State: — For Company: — CONSERVATION DIVISION Form C-5 W&M&R Kansas

RECEIVED  
 STATE CORPORATION COMMISSION  
 OCT 21 1993