

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

15-129-21194-0000 Form C-5 Revised

Conservation Division

TYPE TEST: (Initial) Annual Workover Reclassification TEST DATE: 7-29-93

Company Lease Well No. Anadarko Petroleum Corp Forward A-3

County Location Section Township Range Acres Morton 1880 FSL & 1680 FEL 3 33 S 40 W

Field Reservoir Pipeline Connection Stirrap U. Morrow Centanna Energy

Completion Date Type Completion(Describe) Plug Back T.D. Packer Set At 7-16-93 oil & Gas 5290

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

Flowing (Pumping) Gas Lift oil & water 40.7

Casing Size Weight I.D. Set At Perforations To 5.50 15.5 4.950 5623 5228 5234

Tubing Size Weight I.D. Set At Perforations To 2.375 4.70 1.995 5238

Pretest: Starting Date Time Ending Date Time Duration Hrs.

Test: Starting Date 7-28-93 Time 10:00 Ending Date 7-29-93 Time 10:00 Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Separator Pressure Choke Size Casing: 86 Tubing: 86 23 6 1/4

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	300	2	1	10 1/2	36.89	6'	4 1/2	126.47		89.58
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"	1.25			76.4	34"	.714	77
Critical Flow Prover								
Orifice Well Tester								

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)	Conservation Division Oklahoma, Kansas Factor (Fd)
8.329	90.8	55.562	1.183	9840	1.000	-

Gas Prod. MCFD Flow Rate (R): 538 Oil Prod. Bbls./Day: 89.58 Gas/Oil Ratio (GOR) = 6014 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 28 day of July 1993

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

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

ANADARKO PETROLEUM CORPORATION

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



August 20, 1993

Kansas Corporation Commission
Conservation Division
200 Colorado Derby Building
Wichita, Kansas 67202-1286

Re: Form C-5, Initial Productivity Test
FORWARD "A" NO. 3
1880' FSL & 1680' FEL
Section 3-33S-40W
Morton County, Kansas

Gentlemen:

Enclosed is Form C-5, Initial Productivity Test for the referenced well as required by Corporation Commission rules.

If you should have any questions, please contact the Anadarko office at the above letterhead address.

Very truly yours,

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

Mark Rinehart
Staff Production Engineer
BJW/sh

Enclosures

cc: Well File

RECEIVED
STATE CORPORATION COMMISSION
AUG 23 1993
CONSERVATION DIVISION
Wichita, Kansas

Conservation Division
 TYPE TEST: Initial Annual Workover Reclassification TEST DATE: 8-25-93
 Company: Anadarko Petroleum Corp. Lease: Forward Well No.: A-3
 County: Morton Location: 1880 FSL + 1680 FEL Section: 3 Township: 33 Range: 40 Acres:
 Field: Reservoir: U. narrow Pipeline Connection: Centana Energy
 Completion Date: 7-16-93 Type Completion (Describe): Single oil Plug Back T.D.: 5290 Packer Set At:
 Production Method: Flowing Pumping Gas Lift Type Fluid Production: oil API Gravity of Liquid/Oil: 40.7 @ 60°
 Casing Size: 5.50 Weight: 15.5 I.D.: 4.950 Set At: 5623 Perforations: 5228 To: 5234
 Tubing Size: 2.375 Weight: 4.70 I.D.: 1.995 Set At: 5238 Perforations: - To: -
 Pretest: Starting Date: 8-24-93 Time: 10:45 Ending Date: 8-25-93 Time: 10:45 Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size				
Casing:	105	Tubing:	105			64/64				
Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	300		3	3	69.16	6	10	140.90		71.74
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 In. Water	Tester Pressure In. Merc.	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
Orifice Meter	2	1.25		88.8	38	71.4	RECEIVED
Critical Flow Prover							STATE CORPORATION COMMISSION
Orifice Well Tester							SEP 7 1993

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	62.623	1.183	0.9859	1.000	-
Gas Prod. MCFD	608	Oil Prod. Bbls./Day:	72	Gas/Oil Ratio (GOR) =	8449	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. Kern* For State
 For Company: *Joe Dougherty*
 Form C-5 (5/88)

STATE OF KANSAS - COMMISSION COMMISSION
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

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

Company Anadarko Petroleum Corp. Lease Forward Well No. A-3

County Morton Location 1880 F&L + 1680 FEL Section 3 Township 33 Range 40 Acres

Field 5Tirrup Reservoir U. Morrow Pipeline Connection Centana Energy

Completion Date 7-16-93 Type Completion (Describe) Single oil Plug Back T.D. 5290 Packer Set At -

Production Method: Flowing Pumping Gas Lift Type Fluid Production oil API Gravity of Liquid/Oil 40.7 @ 60°

Casing Size 5.50 Weight 15.5 I.D. 4.950 Set At 5623 Perforations 5228 To 5234

Tubing Size 2.375 Weight 4.70 I.D. 1.995 Set At 5238 Perforations - To -

Pretest: Starting Date 8-24-93 Time 10:45 Ending Date 8-25-93 Time 10:45 Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure 105 Separator Pressure 105 Choke Size 64/64

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	300		3	3	69.16	6	10	140.90		71.74
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range					
Pipe Taps:	Flange Taps:	Differential:	Tester Pressure		Diff. Press.	Gravity	Flowing	
Device	Tester Size	Size	In. Water	In. Merc.	Psig or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)
Orifice Meter	2	1.25			88.8	38	.714	75
Critical Flow Prover								
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 (Fdv)	Flowing Factor (Fd)
8.329	103.2	62.623	1.183	0.9859	1.000	

Gas Prod. MCFD 608 Oil Prod. Bbls./Day 72 Gas/Oil Ratio (GOR) = 8449

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. Kern* For State: *James R. Kern* For Company: *Joe Dougherty*

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