

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & COR REPORT

EXHIBIT 3A-5

15-129-21080-8000 Form C-5 Revised

Observation Division
 (FE TEST: (Initial) Annual Workover Reclassification TEST DATE: 8-7-91
 Company Lease Well No. X-1
 Marko Petroleum Corp USA
 Location Section Township Range Acres
 600' PUL + 400' FEL 10 33.5 40W
 Reservoir Pipeline Connection

Stuccup
 Completion Date 7-25-91 Type Completion (Describe) Single oil Plug Back T.D. 5692 Packer Set At
 Production Method: Pumping Gas Lift oil API Gravity of Liquid/Oil 38.9
 Casing Size 5.50 Weight 15.50 I.D. 4.950 Set At 5692 Perforations 5340 To 5348
 Tubing Size 2.375 Weight 4.70 I.D. 1.995 Set At 5339 Perforations To

Tests:
 Starting Date Time Ending Date Time Duration Hrs.
 Starting Date 8-6-91 Time 10:00 Ending Date 8-7-91 Time 10:00 Duration Hrs. 24

GIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure	Separator Pressure	Choke Size
140	82	64/64
Tubings: 25		

ls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
300	North	1	2 1/2		24.23	6	5	127.31	0	103.08

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range			
Tap:	Flange Taps:	Differential:	Static Pressure:			
Measuring Device	Run-Prover-Tester Size	Orifice Meter-Tester Pressure	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)	
	Size	In. Water In. Merc. Psig or (Pd)				
Orifice Meter	2"	1/4	7		700	60

GAS FLOW RATE CALCULATIONS (R)

Off. MCFD (Fp)(GWTC)	Meter-Prover Press. (Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
25.0			.9258	1.000	1.000	

Oil Prod. Bbls./Day: 103.08 Gas/Oil Ratio (GOR) = 224 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 7th day of August, 1991

For State: James R. Kari
 For Company: Joe Dougherty
 ACW 08-07-91
 Form C-5 (5/88)

STATE OF KANSAS - CORPORATION COMMISSION

PRODUCTION TEST & GOR REPORT 15-129-21086-0000

Form C-5 Revised

Conservation Division

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

Company: Anadarko Petroleum Corp. Lease: U.S.A. Well No.: X-1

County: Morton Location: 600 P.M. & 400 F.E.L. Section: 10 Township: 33 Range: 40 Acres:

Field: Stirrup Reservoir: Marrow D Pipeline Connection: Centana Energy

Completion Date: 7-25-91 Type Completion (Describe): Single oil Plug Back T.D.: 5692 Packer Set At:

Production Method: Flowing Pumping Gas Lift Type Fluid Production: Oil API Gravity of Liquid/Oil: 38.7 @ 60°

Casing Size: 5.50 Weight: 15.5 I.D.: 4.950 Set At: 5692 Perforations: 5340 To: 5348

Tubing Size: 2.375 Weight: 4.70 I.D.: 1.995 Set At: 5339 Perforations: - To: -

Pretest: Starting Date: 8-24-93 Time: 10:00 Ending Date: 8-25-93 Time: 10:00 Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure: Separator Pressure: Choke Size: 28/64

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	300		1	8	37.36	13	10	280.98		24362
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections: Orifice Meter Range: Differential: 100 Static Pressure: 100

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	82.8	43	.691	60
Critical Flow Prover						
Orifice Well Tester						

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia)	Extension (Pm)	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
8.329	97.2	64.650	1.203	1.000	1.000	-

Gas Prod. MCFD: 647 Oil Prod. Bbls./Day: 244 Gas/Oil Ratio (GOR) = 2655 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. Rapp
For State

Joe Daugherty
For Company

STATE OF KANSAS - CORPORATION COMMISSION

PRODUCTION TEST & GOR REPORT

15-129-21086-0000 Form C-5 Revised

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE: 10-5-95

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

County MORTON Location 600 ENL + 400 FEL 10 Section 33 Range 40 Acres

Field Stirrup Reservoir Upper Morrow Pipeline Connection Anadarko Gathering Co.

Completion Date 7-25-91 Type Completion(Describe) Single Oil Plug Back T.D. 5692 Packer Sgt At

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

Flowing Pumping Gas Lift Single Oil 38.9 @ 60°

Casing Size 5.50 Weight 15.5 I.D. 4.950 Set At 5692 Perforations 5340 To 5348

Tubing Size 2.375 Weight 4.70 I.D. 1.995 Set At 5339 Perforations To

Pretest: Starting Date Time Ending Date Time Duration Hrs.

Test: Starting Date 10/4/94 Time 11:15 Am Ending Date 10/5/94 Time 11:15 Am Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Separator Pressure Choke Size

Casing: 345 Tubing: 140 38#

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	300		4	10"	95.67	11	7"	230.52	—	134.85
Test:										

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. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
			In. Water	In. Merc.			
Orifice Meter	2"	1.25			48#	32	691 60°
Critical Flow Prover							
Orifice Well Tester							

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (Fb)(Fp)(OWTC)	Prover Press. (Psia)(Pm)	Extension V/hw x Pm	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
8.329	62.4	44.685	1.203	1.000	1.000	—

Gas Prod. MCFD 448 Oil Prod. Bbls./Day: 134.85 Gas/Oil Ratio (GOR) = 3.322 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. Kembro 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: _____
 Company ANADARKO PETROLEUM CORPORATION Lease USA Well No. X-1
 County MORTON Location 10 Township 33 Range 40 Acres _____
 Field STIRRUP Reservoir UPPER MORROW Pipeline Connection ANADARKO GATHERING CO.
 Completion Date 7-25-91 Type Completion(Describe) SINGLE OIL Plug Back T.D. 5692 Packer Set At _____
 Production Method: Type Fluid Production API Gravity of Liquid/Oil _____
 Flowing Pumping Gas Lift OIL
 Casing Size 5.50 Weight 15.5 I.D. 4.950 Set At 5692 Perforations 5340 To 5348
 Tubing Size 2.375 Weight 4.70 I.D. 1.995 Set At 5339 Perforations _____ To _____

Pretest: Duration Hrs. _____
 Starting Date _____ Time _____ Ending Date _____ Time _____
 Test: Duration Hrs. _____
 Starting Date 12-12-96 Time 9:20 AM Ending Date 11-13-96 Time 9:20 AM Duration 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:									
Test:	FLAT 300	3	10	75.25	6	6	128.51	0	53.26
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. (Psig) or (Pd)	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)	
Orifice Meter	2	1-1/4			6	26	69.1	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)
8.329	20.4	23.030	1.203	1.000	1.000	

Gas Prod. MCFD _____ Oil Prod. _____ Gas/Oil Ratio _____ Cubic Ft. _____
 Flow Rate (R): 230 Bbls./Day: 53.26 (GOR) = 4.332 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 _____ 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: 2-6-96
 Company: Anadarko Petroleum Corp. Lease: USA Well No.: X-1
 County: MORTON Location: 10 Township: 33 Range: 40 Acres:
 Field: Stirrup Reservoir: Upper Morrow Pipeline Connection: Anadarko Gathering Co.
 Completion Date: 7-25-91 Type Completion (Describe): Single Oil Plug Back T.D.: 5692 Packer Set At:
 Production Method: Type Fluid Production: Oil API Gravity of Liquid/Oil:
 Flowing: Pumping Gas Lift
 Casing Size: 5.50 Weight: 15.5 I.D.: 4.950 Set At: 5692 Perforations: 5340 To: 5348
 Tubing Size: 2.375 Weight: 4.70 I.D.: 1.995 Set At: 5339 Perforations: To:
 Pretest: Starting Date: Time: Ending Date: Time: Duration Hrs.:
 Test: Starting Date: 2-5-96 Time: 9:30Am Ending Date: 2-26-96 Time: 9:30Am Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size				
Casing:	269	Tubing:	121			28#				
Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	300		4	6"	89.01	6	3 1/4	124.39	- 0 -	35.38
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections				Orifice Meter Range			
Pipe Taps:	Flange Taps:	Differential:		Static Pressure:			
Measuring Device	Prover-Tester Size	Orifice Size	Meter-Tester Pressure	Diff. Press.	Gravity Gas (Gg)	Flowing Temp. (t)	
			In.Water In.Merc. (Psi) or (Pd)	(hw) or (hd)			
Orifice Meter	2"	1.250	39.5	6.85	1.691	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)
8.329	53.90	19.215	1.203	1.000	1.000	
Gas Prod. MCFD Flow Rate (R):	192	Oil Prod. Bbls./Day:	35.38	Gas/Oil Ratio (GOR) =	5.427	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 1996

For Offset Operator

For State

For Company

[Signature]

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