

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

15-109-21148-00-00

Form C-5 Revised

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE: 1-8-93

Company Andarko Petroleum Corp. Lease U.S.A. AC Well No. 1

County Morton Location 660 ENL 1830 EWL Section 11 Township 33S Range 40W Acres —

Field Stirrup Reservoir U. Morrow D Pipeline Connection Centana Energy

Completion Date 12-23-92 Type Completion (Describe) Single Oil Plug Back T.D. 5543 Packer Set At —

Production Method: Flowing Pumping Gas Lift Oil Type Fluid Production Oil API Gravity of Liquid/Oil 40.2 @ 60°

Casing Size 5.50 Weight 15.50 I.D. 4.950 Set At 5558 Perforations 5357 To 5400

Tubing Size 2.875 Weight 6.50 I.D. 2.441 Set At 5342 Perforations — To —

Pretest: Starting Date 1-6-93 Time 1:15 pm Ending Date 1-7-93 Time 1:15 pm Duration Hrs. 24

Test: Starting Date 1-7-93 Time 1:15 pm Ending Date 1-8-93 Time 1:15 pm Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure 495# Separator Pressure 34# Choke Size 30/64

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:	300 Cone	2	2	10	60.80	10	1 1/2	206.79	-0-	253.77
Test:	300 Cone	1	2	10 1/2	61.64	11	8	237.64		
Test:	300 Cone	2	7	4	130.91	11	6	234.30	-0-	279.39

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections Flange Taps: ✓ Orifice Meter Range 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	.625			20.4	33		
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	34.8	33.89	1.118	1.022	1.000	1.000

Gas Prod. MCFD 74 Oil Prod. Bbls./Day: 279.39 Gas/Oil Ratio (GOR) = 265 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 1993

For Offset Operator James Papp For State David R. Nease For Company