

15-007-22337-0000

STATE OF KANSAS - CORPORATION COMMISSION  
PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

TYPE TEST: (Initial) Annual Workover Reclassification TEST DATE: February 7, 1991

Company: Marathon Oil Company Lease: Ellis G Well No. 3

County: Barber Location: 1650' FSL & 1650' FWL Section: 35 Township: 33S Range: 14W Acres: 3

Field: Aetna Reservoir: Mississippi Pipeline Connection: Kansas Natural

Completion Date: 12-18-90 Type Completion (Describe): Single (Acid + Frac) Plug Back T.D.: 4999 Packer Set At: NONE

Production Method: Flowing X Pumping Gas Lift Type Fluid Production: Oil & SW API Gravity of Liquid/Oil: 26.8

Casing Size: 4 1/2 Weight: 10.5# I.D.: Set At: 5042' Perforations: To: 4816' 4922'

Tubing Size: 2 3/8 Weight: 4.7# I.D.: Set At: 4740' Perforations: To: Open ended

Pretest: Starting Date: 2-6-91 Time: 10:00 AM Ending Date: 2-7-91 Time: 10:00 AM Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure	Separator Pressure	Choke Size
Casing: 500# Tubing: 270#	230#	Full open

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	250	27454	6'	—	120	7'	2"	143.34	13.36	23.34
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections				Orifice Meter Range				
Pipe Taps:	Flange Taps:	Differential: 0-100"		Static Pressure: 0-1000"				
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure In. Water	Pressure In. Merc.	Paig or (Pd)	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
Orifice Meter	3.068	1.25			195#	11"	.65	81°
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)
7.771	209.4	47.99	1.240	.9804		

Gas Prod. MCFD: 453.37 Oil Prod. Bbls./Day: 23.34 Gas/Oil Ratio (GOR) = 19.42 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 7 day of February 1991

For Offset Operator: Stephen J. Pfeifer For State: Bobby L. Swinhardt For Company: 212-91