

15-151-2799-0000

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

AUG 1 1987

Form C-5 Revised

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE:

Company Timberline Oil & Gas Corp. Lease Knop A Well No. 4

County Pratt Location NE NWSW Section 21 Township 26S Range 12W Acres 320

Field TuKa Carmi? Reservoir Mississippi Pipeline Connection Panhandle Eastern

Completion Date 8/11/86 Type Completion (Describe) Perf, Acid, Frac Plug Back T.D. 4259' Packer Set At —

Production Method: Flowing Type Fluid Production Oil, Water, Gas API Gravity of Liquid/Oil 40.6

Flowing	Pumping	Gas Lift	Casing Size	Weight	I.D.	Set At	Perforations	To
			<u>5 1/2"</u>	<u>14#</u>	<u>5.0"</u>	<u>4277'</u>	<u>4126' -</u>	<u>4146'</u>
Tubing Size	Weight	I.D.	Set At	Perforations	To			
<u>2 7/8"</u>	<u>6.5#</u>	<u>1.994"</u>	<u>4224</u>	<u>—</u>	<u>—</u>			

Pretest: Starting Date 7-28-87 Time 10:30 Ending Date 7-29-87 Time 10:30 Duration Hrs. 2 1/2

Test: Starting Date 7-28-87 Time 10:30 Ending Date 7-29-87 Time 10:30 Duration Hrs. 2 1/2

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure	Separator Pressure	Choke Size						
Casing: <u>200</u>	Tubing: <u>25271</u>	<u>3 1 1/4</u>						
Bbls./In.	Tank	Starting Gauge	Ending Gauge	Net Prod. Bbls.				
	Size Number	Feet Inches Barrels	Feet Inches Barrels	Water Oil				
Pretest:								
Test:	<u>200</u>	<u>25271</u>	<u>3 1 1/4</u>	<u>79</u>	<u>4 5 1/2</u>	<u>89</u>	<u>—</u>	<u>10</u>
Test:								

GAS PRODUCTION OBSERVED DATA

Pipe Taps:	Flange Taps:	Differential:	Static Pressure:
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure In. Water In. Merc. Psig or (Pd)
Orifice Meter	<u>3"</u>	<u>3/4"</u>	<u>1"</u>
Critical Flow Prover			
Orifice Well Tester			
Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)	
<u>60</u>			

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)

Gas Prod. MCFD Flow Rate (R): Oil Prod. Bbls./Day: Gas/Oil Ratio (GOR) = 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 29th day of July 1987

For Offset Operator Joe R. [Signature] For State AUG 4 1987 For Company [Signature]

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Field Iuka Carmi? Reservoir Mississippi Pipeline Connection Panhandle Eastern

Completion Date 8/11/86 Type Completion (Describe) Perf, Acid, Frac Plug Back T.D. 4259' Packer Set At -

Production Method: Flowing Type Fluid Production Oil, Water, Gas API Gravity of Liquid/Oil 40.6

Flowing Pumping Gas Lift Casing Size 5 1/2" Weight 14# I.D. 5.0" Set At 4277' Perforations 4126' - 4146'

Tubing Size 2 7/8" Weight 6.5# I.D. 1.994" Set At 4224' Perforations -

Pretest: Starting Date 7/28/87 Time 10:30am Ending Date 7/29/87 Time am Duration Hrs. 24

Test: Starting Date 7/28/87 Time 10:30am Ending Date 7/29/87 Time am 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	Feet	Inches	Barrels	Water	Oil
Pretest:								
Test:	25271	3	1 1/4	78.75	4	5 1/2	89.17	2 10.41
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 Pressure		Diff. Press.	Gravity	Flowing	
			In. Water	In. Merc.	Psig or (Pd)	(hw) or (hd)	Gas (Gg)	Temp. (t)
Orifice Meter		3/4	4"			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)

Gas Prod. MCFD 55 Oil Prod. Bbls./Day: 10.41 Gas/Oil Ratio (GOR) = 5283 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 3rd day of August 1987

For Offset Operator

For State

For Company