

STATE OF KANSAS - CORPORATION COMMISSION

PRODUCTION TEST & GOR REPORT

15-175-202510-0000 Form C-5 Revised

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE: 12-10-86

Company Inca Oil Lease Good Well No. 1-16

County Seward Location NE NW Section 16 Township 34S Range 31W Acres

Field Unnamed Reservoir Morrow Cluster Pipeline Connection Permian/PEPL

Completion Date 1-20-78 Type Completion(Describe) Single Oil Plug Back T.D. 5810 Packer Set At

Production Method: Flowing Pumping Gas Lift Type Fluid Production Oil & Water API Gravity of Liquid/Oil 36.6

Casing Size 4 1/2" Weight 10.5 I.D. Set At 5972 Perforations 5672' To 5773'

Tubing Size 2 3/8 Weight 4.7 I.D. Set At 5803 Perforations To

Pretest: Starting Date 12/08/86 Time 9:30AM Ending Date 12/09/86 Time 9:30AM Duration Hrs. 24

Test: Starting Date 12/09/86 Time 9:30AM Ending Date 12/10/86 Time 9:30 Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Casing: 75# Tubing: 20# Separator Pressure 18# Choke Size Pumping

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
1.18	200	East	3	3 1/2	46.61	3	8	51.92	1.0	5.30
	200	East	3	8	51.92	4	0	56.64	1.0	4.72

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections Pipe Taps: Flange Taps: Orifice Meter Range Differential: 50" Static Pressure: 500#

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	3.00	.500			55.6	1.0	.704	18.0
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)	MCFD (Fp)	Meter-Prover Press. (Psia)	Extension (Pm)	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
1.214		70.0	8.37	1.192	1.043		

Gas Prod. MCFD 12.6 Oil Prod. Bbls./Day: 5 Gas/Oil Ratio (GOR) = 2,520 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 10th day of Dec. 1986

For Offset Operator For State For Company

DEC 30 1986 12-30-86 CONSERVATION DIVISION Wichita, Kansas

**STATE OF KANSAS - CORPORATION COMMISSION
PRODUCTION TEST & GOR REPORT**

OCT 1 1987

Conservation Division

Form C-5 Revised

TYPE TEST: <u>Initial</u>		<u>Annual</u> X <u>Workover</u>	<u>Reclassification</u>	TEST DATE: <u>9-23-87</u>	
Company <u>Inca Oil Corporation</u>			Lease <u>Good</u>	Well No. <u>1-16</u>	
County <u>Seward</u>	Location <u>NE NW</u>	Section <u>16</u>	Township <u>34S</u>	Range <u>31W</u>	Acres
Field <u>Unnamed</u>	Reservoir <u>Morrow/Chester</u>	Pipeline Connection <u>Permian/PEPL</u>			
Completion Date <u>1-20-78</u>	Type Completion (Describe) <u>Single-Oil</u>	Plug Back T.D. <u>5810</u>	Packer Set At		
Production Method: Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> X Gas Lift <input checked="" type="checkbox"/>		Type Fluid Production <u>Oil & Water</u>	API Gravity of Liquid/Oil <u>37.5</u>		
Casing Size <u>4 1/2</u>	Weight <u>10.50</u>	I.D. <u>4.052</u>	Set At <u>5972</u>	Perforations <u>5672</u>	To <u>5773</u>
Tubing Size <u>2 3/8</u>	Weight <u>4.7</u>	I.D. <u>1.995</u>	Set At <u>5803</u>	Perforations	To

Pretest:		Starting Date <u>9-21-87</u> Time <u>10:00 a.m.</u>		Ending Date <u>9-22-87</u> Time <u>10:00 a.m.</u>		Duration Hrs. <u>24</u>
Test:		Starting Date <u>9-22-87</u> Time <u>10:00 a.m.</u>		Ending Date <u>9-23-87</u> Time <u>10:00 a.m.</u>		Duration Hrs. <u>24</u>

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size				
Casing:	<u>80</u>	Tubing:	<u>20</u>			<u>Pumping</u>				
Bbls./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.		
<u>1.18</u>	Size Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil	
Pretest:	<u>200</u>	<u>East</u>	<u>6</u>	<u>7</u>	<u>92.26</u>	<u>6</u>	<u>7</u>	<u>92.26</u>	<u>0</u>	<u>0</u>
Test:										
Test:	<u>200</u>	<u>East</u>	<u>6</u>	<u>7</u>	<u>92.26</u>	<u>6</u>	<u>10</u>	<u>95.80</u>	<u>0</u>	<u>3.54</u>

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range				
Pipe Taps:	Flange Taps:	<u>X</u>	Differential:	<u>50#</u>	Static Pressure:	<u>500</u>	
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	<u>3.00</u>	<u>.500</u>			<u>80</u>	<u>.5</u>	<u>60</u>
Critical Flow Prover							
Orifice Well Tester							

GAS FLOW RATE CALCULATIONS (R)

Coëff. (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)
<u>1.214</u>	<u>94.4</u>	<u>6.870</u>	<u>1.195</u>	<u>1.00</u>	<u>—</u>	<u>—</u>
Gas Prod. MCFD	Oil Prod. Bbls./Day:	Gas/Oil Ratio (GOR) =	Cubic Ft. per Bbl.			
Flow Rate (R): <u>9.966</u>	<u>3.54</u>	<u>2815</u>				

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 5 th day of October 19 87

For Offset Operator

James R. Kay
For State

Raymond D. Blum
Agent
For Company

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