

Conservation Division

TYPE TEST: Initial Annual X Workover Reclassification TEST DATE: 9/23/87

Company Inca Oil Corporation Lease Nilie Keating Well No. 1-13

County Seward Location SW NW Section 13 Township 34S Range 31W Acres

Field Seward Reservoir Cherokee Pipeline Connection PEPL/Enron

Completion Date 5-7-82 Type Completion (Describe) single/oil Plug Back T.D. 5900 Packer Set At none

Production Method: Flowing Pumping X Gas Lift Type Fluid Production oil & water API Gravity of Liquid/Oil 37.7 API

Casing Size 4 1/2 Weight 10.50 I.D. 4.052 Set At 6188 Perforations 5440 To 6099

Tubing Size 2 3/8 Weight 4.7 I.D. 1.995 Set At 5465 Perforations To

Pretest: Starting Date 9-21-87 Time 9:00 a.m. Ending Date 9-22-87 Time 9:00 a.m. Duration Hrs. 24

Test: Starting Date 9-22-87 Time 9:00 a.m. Ending Date 9-23-87 Time 9:00 a.m. Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure Separator Pressure Choke Size

Casing: 80 Tubing: 20# 80# Pumping

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
1.67	300	South	2	6	50.02	2	8	53.36	0	3.34
	300	South	2	8	53.36	2	11	58.37	0	5.01

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections Orifice Meter Range

Pipe Taps: Flange Taps: X 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"	.500			70	10"	.710	63
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)
1.214	84.4	29.1204	1.187	.9971	--	--

Gas Prod. MCFD Flow Rate (R): 41.84 Oil Prod. Bbls./Day: 5 Gas/Oil Ratio (GOR) = 8368 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 October 19 87.

For Offset Operator *James Rapp* For State For Company *Raymond D. ...*

STATE OF KANSAS - CORPORATION COMMISSION  
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

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

Company Inca Oil Lease Keating Well No. 1-13

County Seward Location 1980 FS & 660 FW Section 13 Township 34S Range 31W Acres

Field Ext Annexion Reservoir Cherokee Pipeline Connection Enron Crude/PEPL

Completion Date 5-7-82 Type Completion (Describe) Single Oil Plug Back T.D. 5900 Packer Set At

Production Method:  Flowing  Pumping  Gas Lift Type Fluid Production Oil API Gravity of Liquid/Oil 38.0

Casing Size	Weight	I.D.	Set At	Perforations	To
<u>4 1/2</u>	<u>10.5</u>		<u>6188</u>	<u>5440</u>	<u>5448</u>
Tubing Size	Weight	I.D.	Set At	Perforations	To
<u>2 3/8</u>	<u>4.7</u>	<u>1.995</u>	<u>5465</u>		

Pretest: Starting Date 12/08/86 Time 9:00 AM Ending Date 12/09/86 Time 9:00 AM Duration Hrs. 24

Test: Starting Date 12/09/86 Time 9:00 AM Ending Date 12/10/86 Time 9:00 AM Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure	Separator Pressure	Choke Size		
Casing: <u>65#</u> Tubing: <u>20#</u>	<u>1.9#</u>	<u>Pumping</u>		
Bbls./In.	Tank	Starting Gauge	Ending Gauge	Net Prod. Bbls.
<u>1.67</u>	Size Number	Feet Inches Barrels	Feet Inches Barrels	Water Oil
Pretest:	<u>300</u> <u>21942</u>	<u>9</u> <u>2 1/2</u> <u>184.54</u>	<u>9</u> <u>5</u> <u>188.71</u>	<u>0</u> <u>4.17</u>
Test:				
Test:	<u>300</u> <u>21942</u>	<u>9</u> <u>5</u> <u>188.71</u>	<u>9</u> <u>7</u> <u>192.05</u>	<u>0</u> <u>3.34</u>

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections	Orifice Meter Range					
Pipe Taps: Flange Taps: <input checked="" type="checkbox"/> 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)
Orifice Meter	<u>3.00</u>	<u>.500</u>		<u>60.6</u>	<u>3"</u>	<u>Assumed .700</u> <u>14.0</u>
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)
<u>1.214</u>	<u>75.0</u>	<u>15.0</u>	<u>1.195</u>	<u>1.047</u>	<u>-</u>	<u>-</u>
Gas Prod. MCFD Flow Rate (R): <u>22.8</u>	Oil Prod. Bbls./Day: <u>3</u>	Gas/Oil Ratio (GOR) = <u>7,600</u>	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 19 86

For Offset Operator [Signature] For State [Signature] For Company [Signature]

STATE CORPORATION COMMISSION  
 DEC 30 1986  
 CONSERVATION DIVISION  
 Wichita, Kansas