

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

AUG 1 1988 Form C-5 Revised

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE: 8-14-88

Company: Harris Oil and Gas Lease: Hudkins Well No.: 1-3

County: Seward Location: NE NE Section: 3 Township: 32S Range: 33W Acres: [blank]

Field: North Angel Reservoir: N/A Pipeline Connection: Enron (NNG)

Completion Date: 5-22-88 Type Completion (Describe): Single - Oil Plug Back T.D.: 5123 Packer-Set At: [blank]

Production Method: Flowing Pumping Gas Lift Type Fluid Production: Oil API Gravity of Liquid/Oil: 43 @ 90 - 40.5

Casing Size: 4 1/2 Weight: 10.5 I.D.: 4.000 Set At: 5087 Perforations: 4933 - 4939 To: [blank]

Tubing Size: 2 3/8 Weight: 4.7 I.D.: 1.995 Set At: 4918 Perforations: [blank] To: [blank]

Pretest: Starting Date: 8-11-88 Time: 9:00 am Ending Date: 8-13-88 Time: 10:15 am Duration Hrs.: 49.3

Test: Starting Date: 8-13-88 Time: 10:15 am Ending Date: 8-14-88 Time: 10:15 am Duration Hrs.: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure: 440.1 Separator Pressure: 55 Choke Size: OPEN

Abls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:	300	79.85	4	10 1/4	97.86	7	10	157.92	0	60.06
	300	79.86	9	8	116.0	9	8	116.0	0	0
Test:	300	7985	7	10	157.92	10	9	216.72	0	58.8
	300	7986	9	8	116.0	9	8	116.0	0	0
Test:	300	7985	10	9	216.72	11	7 1/2	234.36	0	17.84
	300	7986	1	4 1/4	27.30	3	8 1/4	74.34	0	47.84

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections: [blank] Orifice Meter Range: [blank]

Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure In. Water	Differential: xx	Static Pressure: 250#	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
Orifice Meter	2"	0.750	xx	100"	250#	30"	.744	90
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coef. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Pma) (Pm)	Extension √hw x Pm	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
2.779	84.4 psia	46.8444	1.159	0.9723	1.000	

Gas Prod. MCFD: 147 Oil Prod. Bbls./Day: 64.68 Gas/Oil Ratio (GOR): 2,272 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 16th day of August 1988.

For Offset Operator: *James R. Kapp* 8-23-88 For State
 For Company: *Carl H. [unclear]* HOGAN OPERATING CO.