

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122

Revised 12-1-55

Pool Basin			Formation Dakota			County San Juan		
Initial X		Annual		Special		Date of Test 1-4-67		
Company Rock Island Oil & Rfg. Co., Inc.				Lease Howell			Well No. 1	
Unit M	Sec. 3	Twp. 30N	Range 8W		Purchaser EPNG			
Casing 4 1/2"	Wt. 10.5	I.D. 4.00	Set at 7687'		Perf. 7455'		To 7650'	
Tubing 2 3/8"	Wt. 4.7	I.D. 2.00	Set at 7461'		Perf.		To	
Gas Pay: From 7455'		To 7650'		L		G		GL 6200'
Producing Through:		Casing		Tubing X		Type Well - Single - Braden head - G.G. or G.O. Dual single		
Date of Completion		Packer			Reservoir Temp.			

OBSERVED DATA

Tested Through: Prover ☐ Choke ☒ Meter ☐								Type of Taps		
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
SI						2312		2311		7 days
1.		3/4				192	76°	856		3 hours
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15,025 psia
1.	12,3650		204	.9850	.9427		2342
2.							
3.							
4.							
5.							

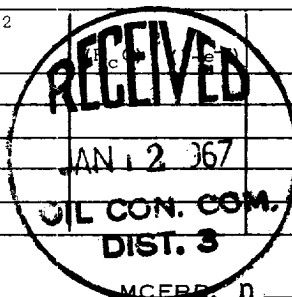
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas **.675 (Est)**

Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____

F_c _____ (1-e^{-S}) _____ P_c **2324** P_c² **5,400,976**

No.	$\frac{P_w}{P_c}$ psia	P _t ²	F _c Q	(F _c Q) ²	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.	868					4,647,552		
2.								
3.								
4.								
5.								



ABSOLUTE POTENTIAL: **2,621** MCF/D, n **.75**

COMPANY **Rock Island Oil & Rfg. Co., Inc.** WITNESSED _____

ADDRESS **321 West Douglas, Wichita, Ks.** COMPANY **Rock Island Oil & Refining Co., Inc.**

AGENT AND TITLE *T. D. Ables*

T. D. Ables