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NEW MEXICO OIL & GAS COMMISSION

Form C-122

MULTI-POINT BACK PRODUCTION TEST FOR GAS WELLS

Revised 12-1-55

Pool Basin Formation Dakota County San Juan
Initial Annual Special X Date of Test 8-2-61
Company International Oil Corp. Lease Pifield Well No. 1-5
Unit N Sec. 5 Twp. 29N Rge. 11W Purchaser
Casing 4-1/2 Wt. 11.6# I.D. 9.5# Set at 6689 Perf. 6402 To 6580
Tubing 2-3/8 Wt. 4.70# I.D. 4.5# Set at 6550 Perf. 6548 To 6550
Gas Pay: From 6402 To 6580 L 6548 G .680 GR 4453 Bar.Press.
Producing Thru: Casing Tubing X Type Well Single-Gas
Date of Completion: 6-11-61 Packer Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp.

OBSERVED DATA

Tested Through 11/16" (Choke) 0.010" Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						2108		2105		
1.										
2.		3/4"	310		60					3 hrs.
3.										
4.										
5.										

FLOW CORRECTIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Factor	Gravity Factor	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.							
3.	12.365		322	1.000	.9393	1.036	3753
4.							
5.							

PRESSURE CALCULATIONS

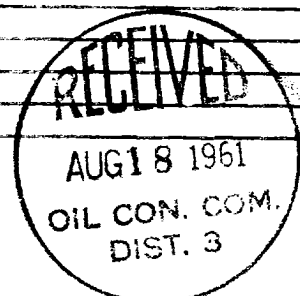
Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c 9.936 (1-e^{-S})
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
F_c 2120 P_c 4494.4

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /F _c
1.								
2.								
3.	804				646.416	3847.984		1.1680
4.								
5.								

Absolute Potential: 4384 MCFPD, n .75 1.1235

COMPANY International Oil Corp.
ADDRESS 2010 Republic Bank Building, Dallas, Texas
AGENT and TITLE Original signed by T. A. Dugan Engineer
WITNESSED
COMPANY

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia
- P_f = Meter pressure, psia.
- h_w = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{pv} = Supercompressability factor.
- n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .