3 NMOCC
1 International
1 Milo

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Formation Dakota County Rio Arriba

Initial X Annual Special Date of Test 7-25-65

Company International Oil & Gas Lease Federal Milos D Well No. 2

Unit H Sec. 7 Twp. 26N Rge. 7 Purchaser

Casing 4 1/2 Wt. 11.6 / 10.5 I.D. Set at 6754 Perf. 6567 To 6622

Tubing 2 3/8 Wt. 4.7 I.D. Set at 6596 Perf. Open Ended To

Gas Pay: From 6567 To 6622 L 6596 xG 0.680 =GL 4485 Bar.Press.

Producing Thru: Casing Tubing X Type Well Single-Gas
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 7-13-65 Packer 6467 Reservoir Temp.

OBSERVED DATA

Tested Through ~~(Prover)~~ (Choke) ~~(Meter)~~ Type Taps

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) (Orifice) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						2472		1365		
1.										
2.										
3.	2"	3/4	218		67	-		1365		3 Hrs.
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-MCFPD @ 15.025 psia
1.							
2.							
3.	12.3650		230	0.9933	0.9393	1.025	2720
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c 9.402 $(1-e^{-s})$ 0.278

Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 2484 P_c^2 6,170,256

No.	P_w / P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$(F_cQ)^2 (1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.									
2.									
3.	230	52.9	25.57	654	181.8	235	5935		1.0395
4.									
5.									

Absolute Potential: 2800 MCFPD; n 0.75 1.0295

COMPANY International Oil & Gas Corp.
ADDRESS 825 Petroleum Club Building, Denver, Colo.
AGENT and TITLE Original signed by T. A. Dugan Thomas A. Dugan, Consulting Engineer
WITNESSED
COMPANY

REMARKS

RECEIVED
JUL 29 1965
OIL CON. COM.
DIST. 3

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.