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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County Rio Arriba

Initial X Annual ____ Special ____ Date of Test 12-11-58

Company Johnston-Shoar Lease 26-3 Well No. 1-3

Unit H Sec 3 Twp. 26N Rge. 3W Purchaser Not Connected

Casing 5 Wt. 11.5 I.D. 4.560 Set at 6077 Perf. 5470 To 5906

Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 5888 Perf. 5883 To 5888

Gas Pay: From 5470 To 5906 L 5883 xG .680 est. -GL 4000 Bar.Press. ____

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

Date of Completion: 12-6-58 Packer 5407' 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						1654		389		81
1.										
2.										
3.	2	3/4				278		386	68	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.	12.365		291	.9881	.9383	1.031	3,478
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl. Specific Gravity Separator Gas ____
Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____
P_c 9.482 $(1-e^{-s})$ 0.252 P_c 1666 P_c^2 2775.556

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.									
2.									
3.	291	84.681	32.597	1062.564	357.766	352.447	2423.109		1.1456
4.									
5.									

Absolute Potential: 3851 MCFPD; n .75/1.1072

COMPANY Johnston & Shoar
ADDRESS 3010 Monte Vista NE, Albuquerque, New Mexico
AGENT and TITLE C. E. Werner, Well Tester, Northwest Production Corp.
WITNESSED ____
COMPANY ____

REMARKS

RECEIVED
DEC 29 1958
OIL CON. COM.

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.

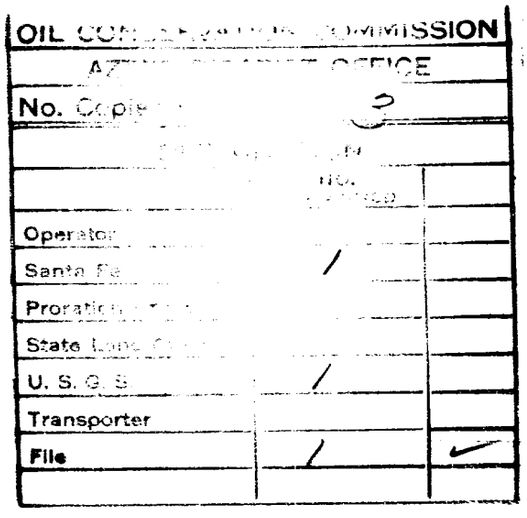
F_g = Gravity correction factor.

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.



DRILLING DEPARTMENT

COMPANY Johnston-Shear

LEASE 26-3 WELL NO. 1-3

DATE OF TEST 12-11-58

SHUT IN PRESSURE (PSIG): MV TUBING 1654 PC CASING 389 S.I. PC Tbg. 40

SIZE BLOW NIPPLE 2

FLOW THROUGH 2" 3/4" T.C. Choke-Tbg. WORKING PRESSURES FROM

TIME HOURS	TIME MINUTES	MV Tbg PRESSURE	PC Tbg. Press	PC Csg. WELLHEAD WORKING PRESSURE (PSIG)	TEMP
0	15	514	41	390	-
0	30	419	41	390	60
0	45	344	41	390	57
1	00	342	41	392	58
2	00	306	41	393	62
3	00	279	41	395	62

START AT 2:00 P.M. END TEST AT 5:00 P.M.

REMARKS: Heavy spray water and distillate through out test.

TESTED BY : C. E. Werner

WITNESS: