3-NMOCC
2-Compass (Denver)
1-Compass (Farmington)NEW MEXICO OIL CONSERVATION COMMISSION
1-El Paso Prod.
1-File

Form C-122

Pool Wildcat Formation Gallup County Rio Arriba Initial X Annual Special Date of Test 9-12-61 Company Compass Exploration, Inc. Lease Federal Well No. 1-3 Unit K Sec. 3 Twp. 26N Rge. 7W Purchaser Casing 5-1/2 Wt. 15.5# I.D. Set at 7415 Perf. 6592 To 6598 Tubing 2-1/6 Wt. 3.25 I.D. Set at 6620 Perf. Open End To	
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Casing 5-1/2 Wt. 15.5# I.D. Set at 7415 Perf. 6592 To 6598 Tubing 2-1/6 Wt. 3.25 I.D. Set at 6620 Perf. Open End To	
Gas Pay: From 6592 To 6598 L xG .70 GL Bar. Press.	
Producing Thru: Casing Tubing Tubing Type Well G.G. Dual	
Date of Completion: 8-30-61 Packer Reservoir Temp.	
OBSERVED DATA	
Tested Through (Choke) (Choke) Type Taps	
Flow Data Tubing Data Casing Data	
(Prover) (Choke) Press. Diff. Temp. Press. Temp. Press. Temp. Duration of Flor	
Size Size psig h _w O _F . psig O _F . psig O _F . Hr.	
SI 1073 1625	
2. 3/4" 219 63 638 3 hes.	
3.	
<u>4.</u> <u>5.</u>	
FLOW CALCULATIONS	
Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow	w
No. $(24-\text{Hour})$ $\sqrt{h_w p_f}$ psia Factor Factor Factor F_{pv} $@ 15.025 \text{ psia}$	sia
1. 2. 12.365 3. 4. 5.	
3.	
3 .	
PRESSURE CALCULATIONS	
Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas	
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid	
F _c (1-e ⁻⁵) P _c 1637 P _c ² 2679.769	
P _W -2 -2 (-32 (-32 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2	
No. $\frac{1}{P_{t}}$ $\frac{1}{P_{t}}$ $\frac{1}{P_{c}}$ $\frac{1}{P_{c}$	
2.	
3. 650 422,500 2257,269 1.1872	L
4. 5.	
Absolute Potential: 3058 MCFPD; n .75 1.1372	
ADDRESS 101 University Blvd., Denver, Colorado	
AGENT and TITLE Original signed by T. A. Dugan Engineer	
WITNESSEDCOMPANY	
REMARKS SEP 1 9 1961	

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 600 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
- Pt- Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- $\mathbf{F}_{\mathrm{DV}}\mathbf{I}$ Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.