

NEW MEXICO OIL CONSERVATION COMMISSION OCC

1957 FEB 11 AM 9:57

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Eumont Formation Queens County LeaInitial _____ Annual x Special _____ Date of Test 9-30-56Company Anderson-Prichard Oil Corp. Lease Britt "A" Well No. 2Unit K Sec. 6 Twp. 208 Rge. 37E Purchaser Permian Basin Pipe Lines Co.Casing 9 5/8" Wt. 40.0# I.D. 8.835" Set at 2445' Perf. _____ To _____Casing 7" Wt. 24.0# I.D. 6.336" Set at 3724' Perf. _____ To _____Gas Pay: From 2450' To 2525' L. 3724' xG .660 -GL 2458' Bar.Press. 13.2Producing Thru: Casing x Tubing _____ Type Well Bradenhead

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 11-4-56 Packer None Reservoir Temp. _____

OBSERVED DATA

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

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								933.4		72 1/2
1.	4"	1.50"	462.0	8.8	87			808.4		24
2.	4"	1.50"	460.5	15.6	56			729.7		23 3/4
3.	4"	1.50"	460.7	21.0	58			627.0		24
4.	4"	1.50"	455.0	22.1	63			475.6		23 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-MCFPD @ 15.025 psia
1.	15.26	64.67	475.2	0.9750	0.9535	1.036	950
2.	15.26	85.97	473.7	1.0039	0.9535	1.047	1315
3.	15.26	99.76	473.9	1.0019	0.9535	1.047	1523
4.	15.26	101.7	468.2	0.9971	0.9535	1.044	1540
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry Gas cf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

F_c No Friction (1-e^{-s})

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P_c 946.6 P_c 896.1 x 1000

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-s})$	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	P_w / P_c
1.	821.6	675.0				675.0	221.1		.87
2.	742.9	551.9				551.9	344.2		.78
3.	640.2	409.9				409.9	486.2		.68
4.	488.8	238.9				238.9	657.2		.52
5.									

Absolute Potential: 2327 MCFPD; n 0.653COMPANY Anderson-Prichard Oil Corp.ADDRESS Box 196, Midland, TexasAGENT and TITLE R.L. WestWITNESSED NoneCOMPANY Permian Basin Pipe Line Co.

REMARKS

E. V. S. A. U. I. L.
S. E. ENGINEER

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 .

Company
Well
Location
County
Date

Anderson-Prichard Oil Corporation
Britt "A" #2
K 6-20S-37E
Lea
12-3-56

