

ILLEGIBLE

Form C-122

Revised 12-1-55

ULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blainery Gas Formation Blainery County Lea

Initial X Annual _____ Special _____ Date of Test 5-1-64

Company Shell Oil Company Lease Turner Well No. 12

Unit 1 Sec. 22 Twp. 21S Rge. 37E Purchaser Lea

Casing 5 1/2 Wt. 15.77 I.D. 4.976 Set at 6420' Perf. 5716' To 5835'

Tubing 2 1/16 Wt. 3.25 I.D. _____ Set at 5772' Perf. 5716' To _____

Gas Pay: From 5716' To 5835' L 5772' xGM 12.753 -GL 4927 Bar.Press. 13.

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

Date of Completion: 5-1-64 Packer *6330 Reservoir Temp. _____

OBSERVED DATA

Tested Through (Blainery) (Blainery) (Meter) Type Taps Flow

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1276		1396		24
1.	4	1.750	27	17.0	60°	1130		1177		1
2.	4	1.750	28	53.0	60°	1024		1129		1
3.	4	1.750	53	53.0	60°	770		677		1
4.	4	2.250	43	23.0	60°	532		621		1
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.	19.27	26.40	41.2	1.000	.922		474.2
2.	19.27	46.73	41.2	1.000	.922		336.7
3.	19.27	61.96	66.2	1.000	.922		1109
4.	33.10	41.40	61.2	1.000	.922		1273
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 46,330 cf/bbl. Specific Gravity Separator Gas 0.66

Gravity of Liquid Hydrocarbons 39.1 API deg. Specific Gravity Flowing Fluid 0.824

P_c Measured (1-e^{-S}) P_c 1401.2 P_c 1775.

No.	P _w (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.	1292.2					1667.0	315.0		
2.	1133.2					1284.1	701.7		
3.	630.2					792.4	1123.4		
4.	624.2					401.2	1503.7		
5.									

Absolute Potential: 1,500 MCFPD; n .571

COMPANY Shell Oil Company

ADDRESS P. O. Box 155, Roswell, New Mexico

AGENT and TITLE A. L. Allard - Gas Tester

WITNESSED _____

COMPANY _____

REMARKS

*Production packer set below top production zone.

This well tested by Rule 104, dated July 1, 1964.

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 .

AUG 4 10 23 AM '64

HOBBBS OFFICE O.C.C.

County LE. Field BLINEBRY GAS
Operator SHELL OIL COMPANY
Lease TURNER Well No. 12
Volume 1,500 MCF/24 hr.
Date AUGUST 1, 1964

