

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

JAN 10 1963 PM 2 33

Pool Undesignated Formation Morrow Sand (Penn) County LeaInitial X Annual Special Date of Test 8- 2-63Company The Pure Oil Company Lease Wilson Deep Unit Well No. 1Unit F Sec. 13 Twp. 21S Rge. 34E Purchaser Casing 7" Wt 26-29-32 I.D. Set at 13,097' Perf. 12,320' To 12,344'Tubing 2-7/8" Wt. 6.5 I.D. 2.441 Set at 12,155' Perf. open end To Gas Pay: From 12,320 To 12,344' L 12,332 xG .611 -GL 7560 Bar.Press. 13.2Producing Thru: Casing Tubing X Type Well SingleDate of Completion: 8- 2-63 Packer Baker Model "D" Reservoir Temp. 170 Deg.

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						5551				
1.		10/64	570	17	69	5214	95			2 hrs. 12 min.
2.		13/64	575	39.5	74	5000	92			1 hr. 58 min.
3.		15/64	580	82.5	60	4630	88			3 hrs. 0 min.
4.		17/64	820	84.0	64	4349	80			3 hrs. 5 min.
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.	27.52	99.57	583.2	.9915	.9910	1.051	2829.5
2.	"	152.43	588.2	.9868	"	1.049	4301.3
3.	"	221.22	593.2	1.0000	"	1.053	6352.4
4.	"	264.55	833.2	.9962	"	1.079	7754.6
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 63,300 cf/bbl.
Gravity of Liquid Hydrocarbons 51.2 deg.
P_c (1-e^{-s})
Specific Gravity Separator Gas .611
Specific Gravity Flowing Fluid
P_c 7110 P_c 50,552

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.	6765					45765	4787		
2.	6512					42798	7751		
3.	6172					38094	12458		
4.	5900					34810	15742		
5.									

Absolute Potential: 20,700 MCFPD; n .84
COMPANY The Pure Oil Company
ADDRESS Box 671 - Midland, Texas
AGENT and TITLE A. R. Castoe, Petroleum Engineer
WITNESSED Al Kreutzer
COMPANY Murdock Tank & Mfg. Co.

REMARKS

* Test Pressures determined by means of bottom hole pressure recorder