

NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE O.C.C.
Nov 6 10³⁵ AM '63
C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Sawyer Area Formation San Andres County Lee
Initial X Annual _____ Special _____ Date of Test 1-31-61
Company Alamo Corporation Lease Bell Federal Well No. 1
Unit G Sec. 20 Twp. 9S Rge. 38E Purchaser None
Casing 9 5/8" Wt. 15.5 I.D. 4.0 Set at 4350' Perf. 4910-4914 4926-4936
5 1/2" 4.0 5071' 4910-4914 4951-4971
Tubing 2 3/8" Wt. 4.7 I.D. 1.99 Set at 4910 Perf. Open To _____
Gas Pay: From 4910 To 4971 L 4940.5 xG 0.769 -GL 3799 Bar.Press. 13.2 psia
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 1-17-61 Packer X Reservoir Temp. _____

OBSERVED DATA

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

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.	
S1			1283		40	1283	40			
1.	2"	0.0625	1264		52	1264	52			1 Hr 0 Min
2.	2"	0.1250	1111		70	1111	70			4 hr 0 Min
3.	2"	0.2180	537		64	537	64			4 Hr 15 Min
4.										
5.										

FLOW CALCULATIONS

Coefficient (24-Hour)	$\sqrt{h_{w2F}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
0.8827		1277.2	1.0078	0.8827	1.134	105
0.9418		1124.2	0.9985	0.8927	1.102	371
1.0834		550.2	0.9962	0.8827	1.049	550

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio * _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
°C _____ (1-e^{-S})

Specific Gravity Separator Gas 0.769
Specific Gravity Flowing Fluid _____
P_c 1296.2 P_c 1080 (Thsds)

No.	P _w P _{xx} (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ² (Thsds)	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	1277.2					1351	49		
2.	1124.2					1263	417		
3.	550.2					303	1377		
4.									
5.									

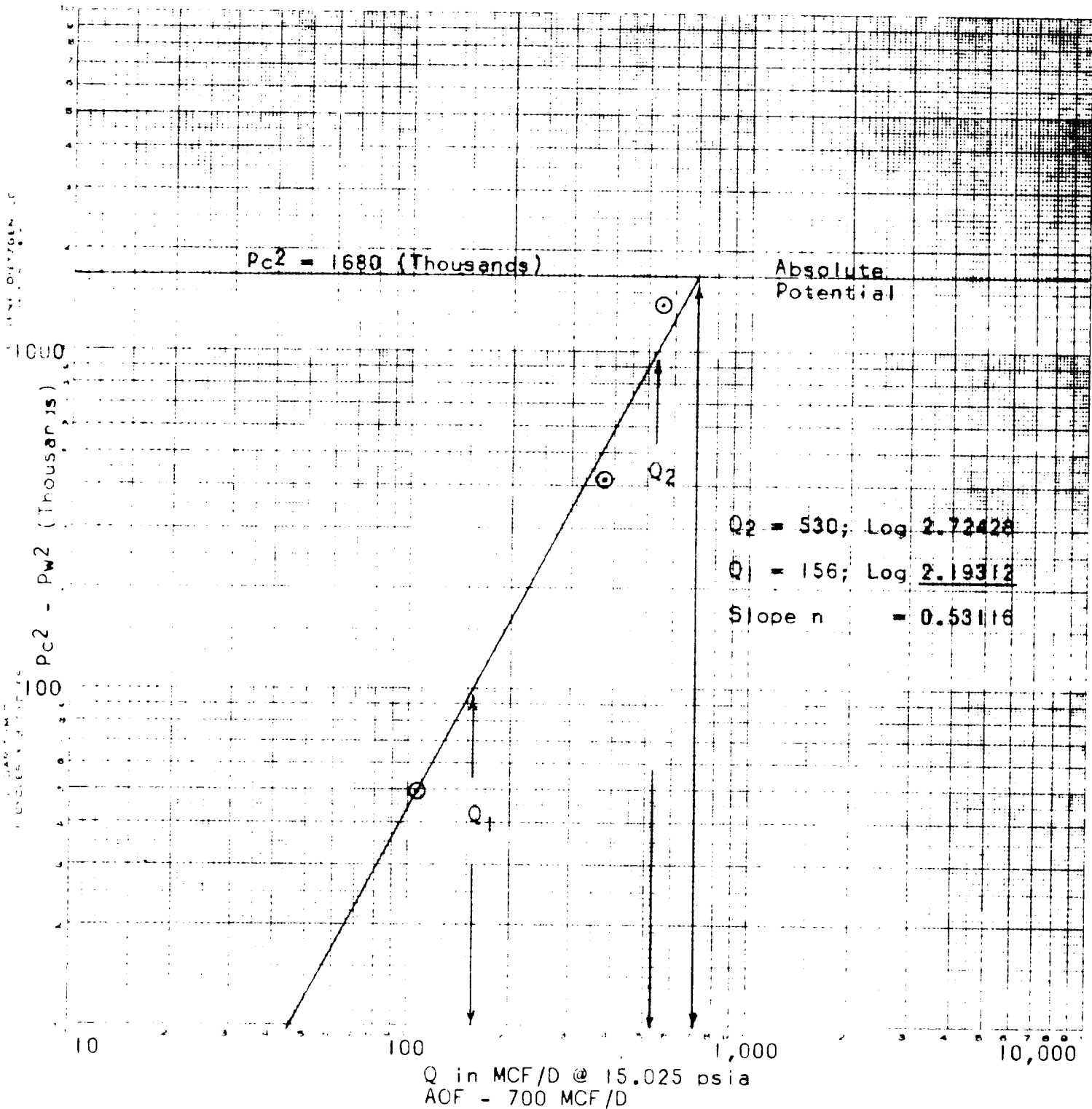
Absolute Potential: 700 MCFPD; n 0.53116
COMPANY Danton Oil Company
ADDRESS 5238 34th Street, Lubbock, Texas
AGENT and TITLE Wilbur R. Phillips, Gas Engineer
WITNESSED Martin S. Nichols
COMPANY Alamo Corporation, 2010 34th St., Lubbock, Texas

REMARKS

- Well produced insufficient liquids to measure during test.
- Nitrogen content of gas 9.49 Mol Percent.
- Carbon Dioxide content of gas 9.44 Mol Percent.

DENTON OIL COMPANY

Company: Alamo Corporation
 Well: Bell Federal No. 1
 Location: NE/4, Sec. 20, T9S, R38E, Sawyer Area
 Lea County, New Mexico



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