

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

ONE
HOLE-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Otero Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Initial X Annual _____ Special _____ Date of Test June 3, 1957
Company Humble Oil & Refining Company Lease Jicarilla Apache Tribe Well No. 3
Unit M Sec. 10 Twp. 23N Rge. 5W Purchaser (To be Southern Union Gas Co.)
Casing 5-1/2" Wt. 14# I.D. 5.012 Set at 2336 Perf. 2192 To 2248
Tubing 2-3/8" Wt. 4.70# I.D. 1.995 Set at 2210 Perf. None To Bottom of open-end tubing at 2210 ft.
Gas Pay: From 2192 To 2248 L 2210 xG 0.680(Est) GL 1503 Bar.Press. 12 psi
Producing Thru: Casing _____ Tubing X Type Well Single - Gas
Date of Completion: May 27, 1957 Packer (None) Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 95°F (Est)

OBSERVED DATA

Tested Through (XXXXX) (Choke) (XXXXX) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (XXXXX) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						668		668		
1.		3/4"	203		50	203	50	438		3 hours
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		215	1.0098	0.9393	1.024	2582
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 680 P_c 462.4

No.	P _w X _u (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 psia P _c psia
1.	450					202.5	259.9		0.662
2.									
3.									
4.									
5.									

Absolute Potential: 4214 MCFPD; n 0.85
COMPANY Humble Oil & Refining Company
ADDRESS Box 1268, Farmington, New Mexico
AGENT and TITLE Russell M. Lilly Russell M. Lilly, District Superintendent
WITNESSED _____
COMPANY _____

REMARKS

Three-hour test with 3/4-inch choke, after 7-day shut-in period, was made in accordance with New Mexico Oil Conservation Commission Memorandum No. 1-56, relating to Initial Potential Tests, San Juan Basin.

Orig & 2cc: Oil Conservation Commission, Aztec, New Mexico
cc: Humble Oil & Refining Company, Midland, Texas
cc: Well Record File



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