

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

ONE
~~INDEX~~-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Otero-Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Initial X Annual _____ Special _____ Date of Test May 24, 1957
Company Humble Oil & Refining Company Lease Jicarilla Apache Tribe Well No. 4
Unit A Sec. 16 Twp. 23N Rge. 5W Purchaser (To Be Southern Union Gas Co.)
Casing 5-1/2" Wt. 14# I.D. 5.012 Set at 2350 Perf. 2212 To 2260
Tubing 2-3/8" Wt. 4.7# I.D. 1.995 Set at 2214 Perf. None To Bottom of open-end tubing at 2214 ft.
Gas Pay: From 2212 To 2260 L 2214 xG 0.68 Est.-GL 1506 Bar.Press. 12 psi
Producing Thru: Casing _____ Tubing X Type Well Single-gas
Date of Completion: 5-17-57 Packer (None) Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 95°F (Est.)

OBSERVED DATA

Tested Through ~~10-3/8"~~ (Choke) ~~10-3/8"~~

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.	
SI						694		694		
1.		3/4	205		50	205	50	452		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		217	1.0098	0.9393	1.017	2588
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 706 P_c² 498.4

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 (psia) / F _c (psia)
1.	464					215.3	283.1		0.657
2.									
3.									
4.									
5.									

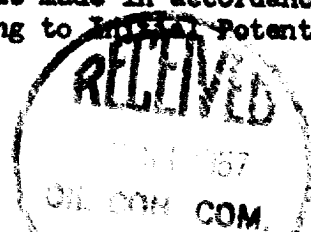
Absolute Potential: 4185 MCFPD; n 0.85COMPANY Humble Oil & Refining CompanyADDRESS P.O. Box 1268, Farmington, New MexicoAGENT and TITLE COPY ORIGINAL Russell M. Lilly, District SuperintendentWITNESSED SIGNED: R. M. LILLY

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 & 2 cc: Oil Conservation Commission, Aztec, N. M.
cc: Humble Oil & Refining Company, Midland, Texas
cc: Well Record File



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