

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

ONE
~~MODUL~~ 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 30, 1957
Company Humble Oil & Refining Company Lease Jicarilla Apache Tribe "H" Well No. 5
Unit M Sec. 31 Twp. 24N Rge. 5W Purchaser (To be Southern Union Gas Co.) _____
Casing 5-1/2" Wt. 14# I.D. 5.012 Set at 2270 Perf. 2136 To 2167
Tubing 2-3/8" Wt. 4.704 I.D. 1.995 Set at 2144 Perf. None To Bottom of open-end tubing at 2144 ft.
Gas Pay: From 2136 To 2167 L 2144 xG 0.680 (Est) GL 1458 Bar. Press. 12 psi
Producing Thru: Casing _____ Tubing X Type Well Gas - Single
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: May 23, 1957 Packer (None) Reservoir Temp. 95° F (Est)

OBSERVED DATA

Tested Through (206666) (Choke) (206666) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (206666) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.		3/4"	206		50	206	50	432		3 hours
2.										
3.										
4.										
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.	12.3650		218	1.0098	0.9393	1.024	2618
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 683 P_c 466.5

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) / P _c (psia)
1.	444					197.1	269.4		0.650
2.									
3.									
4.									
5.									

Absolute Potential: 4176 MCFPD; n 0.85COMPANY Humble Oil & Refining CompanyADDRESS Box 1268, Farmington, New MexicoAGENT and TITLE Russell M. Lilly Russell M. Lilly, District Superintendent

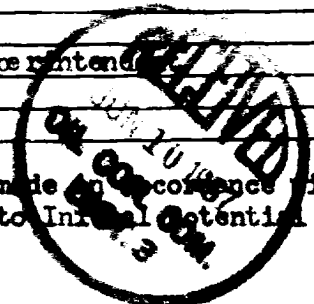
WITNESSED _____

COMPANY _____

REMARKS

Three-hour test with 3/4" 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, New Mexico
cc: Humble Oil & Refining Company, Midland, Texas
cc: Well Record File



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