

Extra COPY

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 9-1-65

RECEIVED

RECEIVED
FEB 5 1974
GEOLOGICAL SURVEY
ARIZONA, NEW MEXICO

FEB 4 1974

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 1/24/74		FEB 4 1974	
Company WOOD & COCKFURN, INC.			Connection None		O. C. C. ARTESIA, OFFICE
Pool Und. Double L Queen Assoc.			Formation Queen		Unit
Completion Date 1/24/74		Total Depth 1960'		Plug Back TD 1925'	Elevation 3852' GR
Farm or Lease Name FEDERAL "B"					Well No. 1
Csg. Size 4 1/2"	Wt. 9.5	d	Set At 1960'	Perforations: From 1842' To 1852'	Unit 1
Tbg. Size 2 3/8"	Wt. 4.7	d	Set At 1800'	Perforations: From To	Unit Sec. Twp. Rge. P 3 158 29E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At	County Chaves
Producing Thru TUG.		Reservoir Temp. °F 60		Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
State New Mexico					
L 1800	H 1800	G _q	% CO ₂ Trace	% N ₂ 60.4	% H ₂ S 0
Prover Pos. cks			Meter Run Pos. cks		
Taps					

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							223	60			24:00
1.	Pos. Ck. 8/64						190	65			60 min.
2.	Pos. ck. 10/64						159	69			60 min.
3.	Pos. ck. 12/64						153	79			95 min.
4.	Pos. ck. 16/64						121	75			60 min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	.2618		202.2	.9952	1.057	1.070	39.9
2.	.4173		172.2	.9915	1.057	1.066	79.8
3.	.6101		166.2	.9822	1.057	1.062	110.9
4.	1.1120		134.2	.9822	1.057	1.060	164.2
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.307	525	1.156	.970	A.P.L. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.260	529	1.165	.981	Specific Gravity Separator Gas .894 X X X X X X X X
3.	.251	539	1.187	.982	Specific Gravity Flowing Fluid X X X X X
4.	.203	539	1.187	.990	Critical Pressure 560 P.S.I.A. P.S.I.A.
5.					Critical Temperature 465 R R

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.		216.1	36.7	16.1	1.48	
2.		182.5	39.3	29.5		
3.		176.2	31.1	31.8		
4.		142.5	20.3	42.5		
5.						

Absolute Open Flow 250 Mcfd @ 15.025				Angle of Slope θ 44°	Slope, n .6990
---	--	--	--	------------------------------------	-----------------------

Remarks:			

Approved By Commission:	Conducted By: Armstrong	Calculated By: Belcher	Checked By:
-------------------------	-----------------------------------	----------------------------------	-------------

~~SECRET~~
ATTN

RECEIVED

FEB 7 1974

F. C.
RECEIVED