

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-4-73	
Company Burlison & Huff			Connection None		
Pool			Formation Jalmat		Unit 0
Completion Date 9/4/73		Total Depth 3220	Plug Back TD 3124	Elevation	Farm or Lease Name Cook
Csq. Size 5 1/2	Wt. 14.5	Set At 3155	Perforations: From 2506 To 2562		Well No. 1
Tbg. Size 2"	Wt. 4.7	Set At 2484	Perforations: From open To ended		Unit Sec. Twp. Rge. 0 28 25 37
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 2484	County Lea
Producing Thru Tbg.		Reservoir Temp. °F 98 @ 2484	Mean Annual Temp. °F 13.2		State New Mexico
L 2484	H 2484	Gg .668	% CO ₂	% N ₂	% H ₂ S Prover Meter Run Taps 2"

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover	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							486	75			
1.	2	x	3/32	470		78	470				1 hr.
2.	2	x	3/16	427		77	427				1 hr.
3.	2	x	7/32	403		79	403				1 hr.
4.	2	x	1/4	377		80	377				1 hr.
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	.1410		483.2	.9831	1.224	1.047	86
2	.6082		440.2	.9840	1.224	1.043	336
3	.8393		416.2	.9822	1.224	1.039	436
4	1.087		390.2	.9813	1.224	1.037	528
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.72	538	1.42	.913	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.66	537	1.42	.920	Specific Gravity Separator Gas .668 Assumed x x x x x x x x
3.	.62	539	1.43	.926	Specific Gravity Flowing Fluid x x x x x
4.	.58	540	1.43	.930	Critical Pressure 670 P.S.I.A. P.S.I.A.
5.					Critical Temperature 378 R R

NO.	P _t ²	P _w ²	R _w ²	P _c ² - R _w ²
1			233.5	15.7
2			193.8	55.4
3			173.2	76.0
4			152.3	97.9
5				

(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 2.572$ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 2.209$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.166$

Absolute Open Flow	1,166	Mcfd @ 15.025	Angle of Slope θ	50.0	Slope, n	.839
--------------------	-------	---------------	-------------------------	------	----------	------

Remarks: Made no fluid at any of these rates.

Approved By Commission: 	Conducted By: Reggie Reston	Calculated By: Reggie Reston	Checked By:
-----------------------------	--------------------------------	---------------------------------	-------------