

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12-14-88	
Company MARSHALL PIPE AND SUPPLY		Connection TO AIR	
Pool TULE-PENNSYLVANIAN		Formation PENN	
Completion Date	Total Depth 7275	Plug Back TD	Elevation 4382 GL
Farm or Lease Name PERRY		Well No. 1 Casing	
Csg. Size 5 1/2	Wt. 17	Set At 7275	Perforations: 6825 to 6830 From 6948 To 6958
Tbg. Size 2 3/8	Wt. 4.7	Set At 6992	Perforations: 7006 to 7014 From 7034 To 7044
Type Well - Single - Brodenhead - G.C. or G.O. Multiple SINGLE		Packer Set At 6992	County ROOSEVELT
Producing Thru CSG	Reservoir Temp. °F 144 @ 6948	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2
L 6948	H 6948	G _g .687	% CO ₂ 2.62
		% N ₂ 7.22	% H ₂ S 0
		Prover 4.026	Meter Run FLG

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							1905		1903	CHOKE	76 HRS
1.	4 X 1.000			440	16.00	86			1759	7/64	1 HR
2.	4 X 1.000			450	32.00	81			1609	9/64	1 HR
3.	4 X 1.000			450	38.00	70			1544	12/64	1 HR
4.	4 X 1.000			450	28.00	92			1426	14/64	1 HR
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	4.753	85.15	453.2	.9759	1.206	1.036	493
2	4.753	121.75	463.2	.9804	1.206	1.037	710
3	4.753	132.67	463.2	.9905	1.206	1.042	785
4	10.84	113.88	463.2	.9706	1.206	1.037	1.499
5.							

NO.	R	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.68	546	1.51	.932	194.7	61.7 @ 60°	.687	XXXXXX	665	362
2	.70	541	1.49	.930				XXXXXX	669	378
3	.70	530	1.46	.921				XXXXXX		
4	.70	552	1.52	.930				XXXXXX		
5.										

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1	1916.2	3671.8			
1			3671.9	530.9	
2			2631.9	1039.9	
3			2425.4	1246.4	
4			2073.2	1598.6	
5					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.297$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3.443$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.297$

Absolute Open Flow	3.443	Mcfd @ 15.025	Angle of Slope @	45	Slope, n	1.000
--------------------	-------	---------------	------------------	----	----------	-------

Remarks: Made 75 BGIS 61.7 Condensate during test

001 7.5 BGIS

ORIGINAL - DISTRICT SUPERVISOR	Conducted By: W.S.	Calculated By: B.M.	Checked By: B.M.
--------------------------------	-----------------------	------------------------	---------------------