

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-18-88	
Company MARSHALL PIPE & SUPPLY				Connection TO AIR		
Pool TULE-PENNSYLVANIAN				Unit PENN		
Completion Date		Total Depth 7275		Plug Back TD 4382 GL		Farm or Lease Name PERRY
Csg. Size 5 1/2	Wt. 17	Set At 7275	Perforations: 6825 to 6830 From 6948 To 6958		Well No. 1 Tubing	
Tbg. Size 2 3/8	Wt. 4.7	Set At 6992	Perforations: 7006 to 7014 From 7034 To 7044		Unit M	Sec. Twp. Rge. 23 2-S 29
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE				Packer Set At 6992		County ROOSEVELT
Producing Thru TBG		Reservoir Temp. °F 60°	Baro. Press. - P _a 13.2		State N.M.	
L 7006	H 7006	G _g .670	% CO ₂ .48	% N ₂ 7.62	% H ₂ S 0	Prover Meter Run 4.026
					Taps 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							1883			CHOKE	24
1.	4 X 2.000			470	60.00	93	1526			24/64	30MIN
2.	4 X 2.000			470	32.00	98	1692			18/64	30MIN
3.	4 X 2.000			460	11.00	89	1776			12/64	30MIN
4.	4 X 2.000			450	3.00	92	1825			6/64	30MIN
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, Mcld
1	19.81	170.27	483.2	.9697	1.222	1.039	4.153
2	19.81	124.35	483.2	.9653	1.222	1.039	3.019
3	19.81	72.15	473.2	.9732	1.222	1.038	1.764
4	19.81	37.28	463.2	.9706	1.222	1.037	.908
5							

NO.	P _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	.73	553	1.52	.927	no condensate produced		.670	X X X X X X X X	*657	*362
2	.73	558	1.54	.927						
3	.72	549	1.51	.928						
4	.70	552	1.52	.930						
5										

NO.	P _r ²	P _w ²	P _w ² - P _r ²
1			2769.2
2			3116.6
3			3272.3
4			3397.7
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.351$

ALF = 0 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 18.070$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.351$

Absolute Open Flow	18.070	Mcld @ 15.025	Angle of Slope	45	Slope, n	1.000
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Remarks: ***Corrected For 7.62% N₂**
Well made 4.30 BBL H₂O During Test

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
JERRY SEXTON	W.S.	B.M.	B.M.

ORIGINAL SIGNED BY JERRY SEXTON
 DISTRICT I SUPERVISOR