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File

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: 10-18-82				
Company: Mesa Petroleum Co. ✓					Connection: Unconnected				
Pool: W/C Pecos Slope ABO					Formation: ABO		Unit:		
Completion Date: 10-18-82		Total Depth: 4350'		Plug Back TD: 4121'		Elevation: 3941'		Farm or Lease Name: Wylie Fed <i>Comm</i>	
Coq. Size: 4 1/2	Wt.: 10.5#	d:	Set At: 4182	Perforations: From 3660' To 3774'		Well No.: 2			
Thq. Size: 2 3/8	Wt.: 4.7#	d:	Set At: 3990	Perforations: From open ended To		Unit: J Sec: 7 Twp: 4S Rge: 25E			
Type Well: Single - Bradenhead - G.C. or G.O. Multiple: Single					Packer Set At: None		County: Chaves		
Producing Thru: Tubing		Reservoir Temp. °F: 103 @ 4350'		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2		State: New Mexico	
L:	H:	G _g : .65	% CO ₂ : 1	% N ₂ : 1	% H ₂ S:	Prover: 2" orifice well tester		Meter Run: 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							640		640		72 hr. SI
1.	2" orifice			4		65	300	85	300		1 hr.
2.	well										
3.	tester										
4.											
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	265	2" orifice well		.9952	.9608		253
2.		tester					
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
2.					Specific Gravity Separator Gas _____ X X X X X X X X			
3.					Specific Gravity Flowing Fluid _____ X X X X X			
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.			
5.					Critical Temperature _____ R _____ R			

P _c : 653	P _c ² : 426		
NO.	P _w	P _w ²	P _c ² - P _w ²
1	313	98	328
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.30$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.30$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 330$

Post ID-2
12-24-82
Camp BK

Absolute Open Flow: 330	Mcfd @ 15.025	Angle of Slope θ: 45°	Slope, n: 1
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Remarks: Unable to run four flow rates due to low delivery of well.
Assumed n=1 and based calculations on one point test.

Approved By Division:	Conducted By: James Craig	Calculated By: <i>SR</i> 12-10-82	Checked By:
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