

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-3-82	
Company Southern Union Exploration Co.		Connection	
Pool Blanco		Formation Mesa Verde	
Completion Date 6-14-79		Total Depth 8276' 3818-	
Plug Back TD 8265'		Elevation 7175'	
Farn or Lease Name Jicarilla A		Well No. #221	
Csq. Size 5 1/2 3 1/2	Wt. 15.5 9.2	d 4.950 2.992	Set At 8037 7888-8275
Thq. Size 2 1/16	Wt. 3.25	d 1.751	Set At 6037
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G.		Packer Set At NA	
Producing Thru The		Reservoir Temp. °F #	
Mean Annual Temp. °F		Baro. Press. - P _g	
L	H	G _g	% CO ₂
			% N ₂
			% H ₂ S
Prover 3/4 choke		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.	
SI			.750				833		836	
1.				49		42			416	
2.										
3.										
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	12.365		61	1.011	.9463	1.005	725
2.							
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 .670	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		428	183184	535320
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3410$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2407$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 904$

Absolute Open Flow	904	Mcf/d @ 15.025	Angle of Slope	Slope, n = .75
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Remarks: very wet with oil and distillate throughout test

Approved By Division	Conducted By:	Calculated By:	Checked By:
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