

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-8-81	
Company El Paso Natural Gas Company				Connection Northwest Pipeline Corp.		
Pool Blanco				Formation Mesa Verde		Unit
Completion Date 11-19-80		Total Depth 5875'		Plug Back TD 5848		Elevation 6557
Form or Lease Name San Juan 27-5 Unit						
Csg. Size 7.0" x 20.0#	wt. 6.456	d 3590	Set At 3590	Perforations: From 4805 To 5775		Well No. #8A
Tbg. Size 2.575	wt. 4.7#	d 1.995	Set At 5759	Perforations: From To		Unit Sec. Twp. Rge. E 32 27 5
Type Well - Single - Brasshead - G.G. or G.C. Multiple G.G. Dual				Packer Set At 3501'		County Rio Arriba
Producing Thru Thru		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12
State New Mexico						
L	H	G _g 0.670	% CO ₂	% N ₂	% H ₂ S	Prover 4"
Meter Run 4"						Taps Fig.

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							768			
1.	4" X 2.500"			15	3.9	530	78			3 Hours
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	185.21	6.428	27	1.007	1.222	1.000	814
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	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

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1	8100	150	22,500	585,900	
2.					
3.					
4.					
5.					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0384}{1.0384 - 1.0384} = \dots$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{857}{1.0384 - 1.0384} = \dots$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0387}{1.0384 - 1.0384} = \dots$$

Absolute Open Flow _____ Mcfd @ 15.025		Angle of Slope θ _____	Slope, n _____ 0.75
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Remarks: * 4" Liner - 549' to 5875'
Liquids Produced 24.6 Bbls Water, 1.2 Bbls Oil
Gas Vented 117 MCF

Approved By Division	Conducted By: Know Hedgecock	Calculated By: Bill Clark	Checked By:
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