

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date	
Company Meridian Oil Inc.		Connection El Paso Natural Gas Co.	
Pool Otero/Blanco		Formation Chacra/Mesaverde	
Completion Date 7/3/91	Total Depth 4874	Plug back TD 4859	Elevation 5998
Farm or Lease Name Hancock		Well No. 11	
Cas. Size 4.5 7.0	Wt. 10.5/20.0	d 6.456	Set At 2431
Perforations: From 3176 To 3190			
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 4516
Perforations: From 4427 To 4813			
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Single - Commingled		Packer Set At N/A	
Producing Thru Tubing		Baro. Press. - P_b 12.2	
Reservoir Temp. °F 8		Mean Annual Temp. °F	
County San Juan		State New Mexico	
L	H	Gg	% CO ₂ % N ₂ % H ₂ S Prover 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	2"		.750				336		810	
1.							158	68	538	1 hr.
2.							132	74	479	2 hrs.
3.							118	78	457	3 hrs.
4.										
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. Compres. Factor, F_{sp}	Rate of Flow Q, Mcld
1	12.365		130.2	1.000	.9258	1.000	1490.47
2.							
3.							
4.							
5.							

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DIST. 3

NO.	P_1^2	P_w^2	P_c^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4829$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3438$
1	469.2	220148.64	455864.2			
2						
3						
4						
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2002.92$

Absolute Open Flow 2002.92	Mcld @ 15.025	Angle of Slope @	Slope, n 0.75
Remarks:			

Approved By Division	Conducted By: J. Golding	Calculated By: L. Byars	Checked By:
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