

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-23-87	
Company MERIDIAN OIL, INC.				Connection EL PASO NATURAL GAS COMPANY		
Pool BASIN				Formation DAKOTA		Unit
Completion Date 10-12-87		Total Depth 7464'		Plug Back TD 7456'		Elevation 6145' GL
Csg. Size 4.5000		Wt. 10.5#	d 4.0520	Set At 7464'	Perforations: From 7195' To 7400'	
Thg. Size 1.9000		Wt. 2.9#	d 1.6100	Set At 7424'	Perforations: From To	
Type Well - Single - Brdenhead - G.C. or G.O. Multiple SINGLE				Packer Set At NONE		County RIO ARRIBA
Producing Thru TUBING		Reservoir Temp. °F p		Mean Annual Temp. °F		State NEW MEXICO
L	H	Gg .700	% 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							2543		2547		
1.	2" X 3/4"						205		1183	54°	1 HR.
2.							165		994	56°	2 HRS.
3.							148		906	58°	3 HRS.
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		160.2	1.0000	.9258	1.0000	1834
2.							
3.							
4.							
5.							

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

P _c 2559.2		P _c 6549504.6	
NO.	P _i ²	P _w	P _c ² - P _w ²
1		918.2	843091.2
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.1477}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{2034}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.1089}$

Absolute Open Flow 2034	Mcf @ 15.025	Angle of Slope @	Slope, n .75
Remarks: DRY			

Approved By Division	Conducted By: G. OSBORNE	Calculated By: S. LINDSAY	Checked By:
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