

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 1-31-92	
Company Meridian Oil Inc.		Connection El Paso Natural Gas Co.	
Pool Basin Dakota		Formation Dakota	
Completion Date 12-18-91	Total Depth	Plug Back TD	Elevation 6670'
Form or Lease Name Vaughn			
Csc. Size 7.5 / 5.5	Wt. 11#/23#	d 5302 surface	Set At 7202 5302
Perforations: From 6828 To 7104		Well No. 13E	
Eng. Size 2.375	Wt. 47#	d n-80	Set At 7112
Perforations: From To		Unit Sec. Twp. Rge. 0 27-26N-6W	
Type Well - Single - Broadhead - G.C. or G.C. Multiple Dual Completion (Multiple)		Packer Set At 5200	County Rio Arriba
Producing Thru Tbg	Reservoir Temp. °F 8	Mean Annual Temp. °F	Baro. Press. - P _g State N.M.
L	H	G _g .68	% 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. In. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI	2"	.750					1805		1805	
1.							237	59.	N/A	
2.							204	61	N/A	
3.							197	61	N/A	
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 Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9,604		209	.999	1.224	1.024	2513
2.							
3							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.37	521	1.353	.953	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 _r ²	P _w ²	P _w ²	P _r ² - P _w ²
1	1817	3.301	489	
1		209	43.681	3,257.808
2				
3				
4				
5				

$$(1) \frac{P_r^2}{P_r^2 - P_w^2} = 1.013$$

$$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2537$$

$$(2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0097$$

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope @ _____	Slope, n _____
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Remarks: _____

Approved By Division	Conducted By: Garry Nelson	Calculated By: L. Byars - Foreman	Checked By:
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