

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form 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 Blanco		Formation Mesa Verde	
Completion Date 12-18-91		Total Depth	Plug Back TD
Casing Size 5.5/7.5		Well No. 13E	Form or Lease Name Vaughn
Perforations: From 4802 To 4994		Well No. 13E	
Perforations: From To		Unit Sec. Twp. Rge. 0 27-26N-6W	
Type Well - Single - Broadhead - G.C. or G.O. Multiple Multiple dual		Packer Set At 5200'	
Producing Thru Tbg		State N.M.	
Reservoir Temp. °F		Mean Annual Temp. °F	
Baro. Press. - P _g		State N.M.	
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.	
SI	2"	.750					1070		1149	
1.							363	58	872	
2.							275	59	797	
3.							255	60	759	
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	9.604		267	1.000	1.240	1.028	3269
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.3985	520	1.3867	.946	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) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.789$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.5469$
1		771	594.441	753.480		
2						
3						
4						
5						

$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 5.056 \text{ mcf}$

$P_c = 1161$ $P_c^2 = 1,347,921$

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope @ _____	Slope, n _____
Remarks: _____		
Approved By Division	Conducted By: Garry Nelson	Calculated By: L. Byars - Foreman
Checked By:		