

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 12-1-55

Pool South Elanco Pictured Cliffs			Formation Pictured Cliffs			County Rio Arriba		
Initial X		Annual		Special		Date of Test 4-27-67		
Company Intermountain Petroleum Corp.			Lease McKenzie Federal			Well No. 4		
Unit 790S 1850W	Sec. 25	Twp. 25	Range 6		Purchaser El Paso Natural Gas Company			
Casing 4 1/2	Wt.	I.D.	Set at 2493		Perf. 2421		To 2431	
Tubing 1	Wt.	I.D.	Set at 2424		Perf. 2420		To 2424	
Gas Pay:	From 2421	To 2431	L	G .650(E)	GL	Bar. Press. 12		
Producing Through:		Casing	Tubing X		Type Well - Single - Braden head - G.G. or G.O. Dual Single			
Date of Completion		Packer		Reservoir Temp.				

OBSERVED DATA										
Tested Through: Prover ☒ Choke ☐ Meter ☐								Type of Taps		
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) Size	(Choke) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
1.	2	.750	49		50	49		825		7 Days
2.								765		3 Hrs.
3.										
4.										
5.										

FLOW CALCULATIONS							
No.	Coefficient (24 Hour)	$\sqrt{h_w p_t}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15,025 psia
1.	12.20		61	1.0098	.9608	1.000	722
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS									
Gas Liquid Hydrocarbon Ratio 0.01 cf/bbl.					Specific Gravity Separator Gas _____				
Gravity of Liquid Hydrocarbon 0.75 deg.					Specific Gravity Flowing Fluid _____				
F _c (1-e^{-S})					P _c 837 P _c ² 700.569				
No.	P _w psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	P _w P _c
1.	777					603.729	96.840	7.2343	53762
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: 3.882 MCFPD; n .85

COMPANY Intermountain Petroleum Corporation WITNESSED [Signature]

101 Petroleum Center Building

ADDRESS Farmington, New Mexico COMPANY _____

AGENT AND TITLE Wayne B. Smith, P.E.