

3-OCC; 2-Phillips (Wolcast, Cullender)

1-Comm. Pub. Lands

1-HLKendrick

1-BParrish, 1-LDH, 1-TCA, 1-TCowans, 1-F

NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Revised 12-1-55

Pool Basin Dakota		Location Dakota		County Rio Arriba	
Initial X	Annual	Special	Date of Test 6-30-65		
Company Beta Development Co.		Lease San Juan 29-6 Unit		Well No. 90	
Unit F	Sec. 15	Twp. 29N	Range 6W	Purchaser El Paso Natural Gas Co.	
Casing 4 1/2	Wt. 11.6 10.5	I.D. 4.000 4.052	Set at 8148	Perf. 8024	To 8126
Tubing 2-3/8	Wt. 4.7	I.D. 1.995	Set at 8092	Perf. Open	To End
Gas Pay:	From 8024	To 8126	L 8079	G .670	GL 12.0
Producing Through:		Casing	Tubing X	Type Well - Single - Braden head - G.G. or G.O. Dual Single - gas	
Date of Completion 6-23-65		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) (Line) Size	XXXXX (Office) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.		Temp. °F.
SI						2463		2464		7 days
1.		3/4	203		72	203	72	773		3 hrs
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF P.D. @ 15.025 psia
1.	12.3650		215	.9887	.9463	1.021	2,540
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.				Specific Gravity Separator Gas _____					
Gravity of Liquid Hydrocarbons _____ deg.				Specific Gravity Flowing Fluid _____					
F _c _____ (1-e ^{-S}) _____				$P_c = \frac{2476}{P_w} = \frac{P_c^2}{P_w^2}$ 6130.5 616.2					
No.	$\frac{P_w}{P_t}$ psia	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$	$\frac{P_w^2}{P_c^2}$	$P_c^2 - P_w^2$	Cal F _w	$\frac{P_w}{P_c}$
1.						616.2	5513.3		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: 2,750 MCFPD; n .75COMPANY Beta Development Co. WITNESSED H. McAnallyADDRESS 234 Petr. Club Plaza, Farmington, N.M. COMPANY El Paso Natural Gas Co.AGENT AND TITLE G.L. Hoffman, Prod. Engr.