

3-CCC, 2-Phillips (Wolgast, Cullender)

1-Comm. Pub. Lands

1-BParrish,

1-HLKendrick, 1-TCA, 1-LDH, 1-TCowan, 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		Formation Dakota		County Rio Arriba	
Initial X	Annual	Special	Date of Test 8-3-65		
Company Beta Development Co.		Lease San Juan 29-6 Unit		Well No. 91	
Unit H	Sec. 21	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 7762	Perf. 7533	To 7687
Tubing 2-3/8	Wt. 4.7	I.D. 1.995	Set at 7695	Perf. Open	To End
Gas Pay:	From 7533	To 7687	L 7683	G .670	GL 5147 Bar. Press. 12.0
Producing Through:		Casing	Tubing X	Type Well - Single - Braden head - G.G. or G.O. Dual Single - gas	
Date of Completion 7-18-65		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	(Choke) (Line) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
SI										
1.		3/4	250		76	2598		2687		7 days
2.						250	76	948		3 hrs
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		262	.9850	.9463	1.025	3.095
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 2699 P _c ² 7284.6					
				P _w 960 P _w ² 921.6					
No.	P _w P _t 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 P _c
1.						921.6	6363.0		.355
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **3,425** MCFPD; n **.75**COMPANY **Beta Development Co.** WITNESSED **Don Roberts**ADDRESS **234 Petr. Club Plaza, Farmington, N.M.** COMPANY **El Paso Natural Gas Co.**AGENT AND TITLE **G.L. Hoffman, Prod. Engr.**