

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

Form C-122
Revised 12-1-55

Pool <u>Basin</u>			Formation <u>Del Norte</u>			County <u>San Juan</u>				
Initial <u>X</u>		Annual		Special		Date of Test <u>11-1-65</u>				
Company <u>Thomas A. Duggan</u>			Lease <u>Patton</u>			Well No. <u>1</u>				
Unit <u>D</u>	Sec. <u>6</u>	Twp. <u>27N</u>	Range <u>14W</u>		Purchaser					
Casing <u>5 1/2"</u>	Wt. <u>15 1/2</u>	I.D.	Set at <u>5710</u>		Perf. <u>5472</u>	To <u>5482</u>				
Tubing <u>2 3/8"</u>	Wt. <u>4.7#</u>	I.D.	Set at <u>5481</u>		Perf. <u>open ended</u>	To				
Gas Pay: From		To	L	G	Bar. Press.					
				<u>165 ccf.</u>						
Producing Through:		Casing	Tubing <u>X</u>		Type Well - Single - Braden head - G.G. or G.O. Dual <u>Single gas</u>					
Date of Completion <u>10-18-65</u>		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) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
SI						<u>1446</u>		<u>1446</u>		
1.										
2.		<u>3 1/4"</u>				<u>95</u>	<u>65°</u>	<u>472</u>		<u>3 hrs.</u>
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 PD @ 15.025 psia			
1.										
2.	<u>12.365</u>		<u>107</u>	<u>.9952</u>	<u>.9602</u>	<u>1.010</u>	<u>12.78</u>			
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 <u>1457</u> P _c <u>2,139,760</u>					
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 _w /P _c	
1.										
2.	<u>490</u>					<u>500.00</u>	<u>1785.4</u>		<u>1.1273</u>	
3.										
4.										
5.										

ABSOLUTE POTENTIAL: 1398 MCFPD: n = .75 1.0

COMPANY _____ WITNESSED _____

ADDRESS _____ COMPANY _____

AGENT AND TITLE Thomas A. Duggan Engineer

