

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special										Test Date	
Company <i>James R. McHugh</i>					Connection						
Pool <i>Del Norte</i>					Formation <i>Del Norte</i>					Unit	
Completion Date <i>5-19-66</i>			Total Depth <i>2400</i>		Plug Back TD <i>2160</i>		Elevation <i>6412</i>		Farm or Lease Name <i>Hardhens</i>		
Csq. Size <i>4 1/2"</i>	Wt. <i>25</i>	d	Set At <i>2192</i>	Perforations: From <i>2167</i> To <i>2215</i>		Well No. <i>2</i>					
Tbg. Size <i>1 1/2"</i>	Wt. <i>24</i>	d	Set At <i>2192</i>	Perforations: From <i>2167</i> To <i>2215</i>		Unit <i>J</i>		Sec. <i>18</i>	Twp. <i>25N</i>	Rge. <i>7W</i>	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					Packer Set At		County <i>Del Norte</i>				
Producing Thru <i>150</i>		Reservoir Temp. °F <i>8</i>		Mean Annual Temp. °F		Baro. Press. -- P _a		State <i>New Mexico</i>			
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps			

FLOW DATA						TUBING DATA		CASING DATA		Duration	
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.	Temp. °F	of Flow
SI							<i>423</i>		<i>487</i>		
1.											
2.	<i>1/2" Prover</i>			<i>64</i>		<i>600</i>			<i>198</i>		<i>3.45</i>
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							
2	<i>1.577</i>		<i>76</i>	<i>1000</i>	<i>1.000</i>	<i>1.000</i>	<i>649</i>
3							
4							
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					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

P _c <i>499</i>	P _c ² <i>249001</i>			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2	<i>200</i>	<i>2100</i>	<i>44100</i>	<i>244501</i>
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{249001}{244501} = 1.0184$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 766$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{n^{.85}} = \frac{1.1801}{1.0184} = 1.159$

Absolute Open Flow <i>766</i> Mcfd @ 15.025	Angle of Slope <i>0</i>	Slope, n <i>.85</i>
Remarks:		
Approved By Commission:	Conducted By: <i>James R. McHugh</i>	Calculated By: <i>James R. McHugh</i>

RECEIVED
JUN 18 1966
OIL CON. COM.
DIST. 3