

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-16-84	
Company Beta Development Co.				Connection Flora	
Pool Basin Dakota				Formation Dakota	
Completion Date 5-12-84		Total Depth 6565'		Plug Back TD 6514'	
Elevation 6100' GR		Farm or Lease Name Holloway Federal			
Csg. Size 5 1/2"	Wt. 14#	d	Set At 6563'	Perforations: From 6398 To 6472	
Thg. Size 2"	Wt. 4.7#	d	Set At 6467	Perforations: From 6322 To 6374	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F	
Baro. Press. - P _a		County San Juan			
State		Well No. 5-E			
Unit D		Sec. 7		Twp. 27N	
Rge. 11W					
L	H	G _g	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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.	
SI	2"	.75		173		87	411		574	
1.	2"	.75		122		110	258		402	
2.	2"	.75		96		108	196		296	
3.	2"						1249		1378	
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		108	.9568	1.000	1.006	1285
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	55.625/1	Mcft/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 1380	P _c ² 1904400	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1904400}{1809536}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0391$
NO	P _t ²	P _w	P _w ²
1		308	94864
2			
3			
4			
5			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,335$	
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Absolute Open Flow	55.63 MCF per hr	Mcfd @ 15.025	Angle of Slope @	Slope, n
Remarks: 166.89 MCF D 3-hr				

Approved By Division	Conducted By: John B. Keeling	Calculated By: John B. Keeling	Checked By:
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JUL 25 1984

OIL CON. DIV.

DIST. 3