

N 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 3/01/91	
Company BTA Oil Producers				Connection Phillips 66 Natural Gas Company	
Pool Grama Ridge E.				Formation Morrow	
Completion Date 01/21/91		Total Depth 13,280		Plug Back TD 13,054	
Elevation 3715' RKB		Farm or Lease Name Grama B, 8817 JV-P			
Csg. Size 5"	Wt. 21.3	d 4.184	Set At 13,279'	Perforations: From 12,930 To 12,935	
Thg. Size 2-7/8"	Wt. 6.5	d 2,441	Set At 12,798'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,989'	
Producing Thru Tubing		Reservoir Temp. °F 184 @ 12,932'		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State New Mexico			
L 12,798'	H 12,798'	G _g 0.651	% CO ₂ 0.40	% N ₂ 0.47	% H ₂ S 0
Prover 4.026		Meter Run 4.026		Taps Flange	

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.		Temp. °F
SI	4.026	x	2.000				5255	60	Pkr	75	SI 984 hrs
1.	4.026	x	2.000	140	3	58	4510		Pkr		1 hr
2.	4.026	x	2.000	140	10	70	3735		Pkr		1 hr
3.	4.026	x	2.000	145	32	64	2673		Pkr		1 hr
4.	4.026	x	2.000	150	44	66	2130		Pkr		1 hr
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	19.81	21.44	153.2	1.0020	1.239	1.016	536
2	19.81	39.14	153.2	0.9905	1.239	1.015	967
3	19.81	71.15	158.2	0.9962	1.239	1.016	1768
4	19.81	84.74	153.2	0.9943	1.239	1.016	2102
5							

NO.	P _r	Temp. °F	T _r	Z	Gas Liquid Hydrocarbon Ratio	28576	Mcf/abbl.
1.	0.23	518	1.38	.964	A.P.I. Gravity of Liquid Hydrocarbons	42 @ 60	Deq.
2.	0.23	530	1.41	.971	Specific Gravity Separator Gas	0.651	XXXXXXX
3.	0.24	524	1.40	.969	Specific Gravity Flowing Fluid	XXXXX	
4.	0.24	526	1.40	.969	Critical Pressure	670	P.S.I.A.
5.					Critical Temperature	375	P.S.I.A.

P	7002.2	P _r ²	49031
NO	P _r ²	P _w	P _w ²
1		6377.2	40669
2		5432.2	29509
3		4096.2	16779
4		3334.2	11117
5			

$(1) \frac{P_r^2}{P_r^2 - P_w^2} = 1.293$		$(2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.293$	
$ACF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2717$			

Absolute Open Flow	2717	Mcf/d @ 15.025	Angle of Slope °	45	Slope, n	1.000
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Remarks: Bottom Hole Pressures measured by Jarrel Services, Inc.

Approved By Commission:	Conducted By: BTA Oil Producers	Calculated By: T. J. Williams	Checked By:
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