

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

Form C-122
Revised 9-1-65

RECEIVED

415P
F.12

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4/4/89		JUN 14 '89	
Company BTA OIL PRODUCERS				Connection El Paso Natural Gas Co.				O. C. D.	
Pool S. Culebra Bluff <i>ATOKA</i>				Formation Atoka				Unit <i>ATOKA</i> , OFFICE	
Completion Date 11/24/89		Total Depth 12,868'		Plug Back TD 12,740'		Elevation 2,988' GR		Farm or Lease Name Pardue, 8808 JV-P	
Csg. Size 5"	Wt. 23.08	d 4.059	Set At 12,868'	Perforations: From 11,604' To 12,481'		Well No. 1			
Tbg. Size 2 7/8"	Wt. 6.5	d 2.441	Set At 11,485'	Perforations: From To		Unit L	Sec. 11	Twp. 23-S	Rge. 28-E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10,251'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 180° @ 12,040		Mean Annual Temp. °F 60°		Baro. Press. - P _g 13.2		State New Mexico	
L 11,485	H 11,485	Gg .585	% CO ₂ 1.49	% N ₂ 0.76	% H ₂ S 0	Prover	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									Pkr	70°	
1.	4.026 x 0.75			412	8.5	80°	520	70°			24 hr
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2.661	60.11	425.2	.9813	1.307	1.043	214
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>Dry</u> Mcf/bbl.
1.	0.632	540	1.40	.919	A.P.I. Gravity of Liquid Hydrocarbons <u>None</u> Deg.
2.					Specific Gravity Separator Gas <u>0.585</u> XXXXXXXXXX
3.					Specific Gravity Flowing Fluid <u>XXXXX</u>
4.					Critical Pressure <u>673</u> P.S.I.A. P.S.I.A.
5.					Critical Temperature <u>384</u> R R

P _c 7336 P _c ² 53817	
NO.	P _r ² P _w P _w ² P _c ² - P _w ²
1	1376.2 1894 51923
2	
3	
4	
5	

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.04$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.04$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 223$$

Absolute Open Flow <u>223</u> Mcfd @ 15.025	Angle of Slope <u>45</u>	Slope, n <u>1.000</u>
---	--------------------------	-----------------------

Remarks: Single Point Test unable to get stabilized rate & pressure

Approved By Commission:	Conducted By: BTA OIL PRODUCERS	Calculated By: T. J. Williams	Checked By:
-------------------------	------------------------------------	----------------------------------	-------------