

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: 6-19-75	
Company: Continental Oil Company			Connection: El Paso Natural Gas Company			
Pool: Burmont			Formation: Queen		Unit:	
Completion Date: 6-19-75		Total Depth: 3772		Plug Back TD: 3728		
Elevation:		Farm or Lease Name: Britt B				
Csg. Size: 5 1/2	Wt.: 14 #	Set At: 3772	Perforations: From 3528 To 3660		Well No.: 25	
Tq. Size: 2 3/8	Wt.: 4.7 #	Set At: 3664	Perforations: From Open To End		Unit: C Soc.: 15 Twp.: 20 Rge.: 37	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: None		County: Lea	
Producing Thru: 28G.		Reservoir Temp. °F: 80		Mean Annual Temp. °F:		
Baro. Press. - P _a :		State: New Mexico				
L:	H:	G _g : .667	% CO ₂ : (Assumed)	% N ₂ :	% H ₂ S:	
Prover:			Meter Run: 4		Taps: FLG.	

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							492		512		
1.	1/4	X 2.500		65	4"	68	484		510		30 Min.
2.	1/4	X 2.500		71	9"	60	467		508		30 Min.
3.	1/4	X 2.500		77	16.8"	56	459		501		45 Min.
4.	1/4	X 2.500		77	28.6"	57	389		495		60 Min.
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.	32.64	17.69	78.2	.9924	1.224	Nil	701
2.	32.64	27.53	84.2	1.000	1.224	Nil	1100
3.	32.64	38.93	90.2	1.004	1.224	Nil	1561
4.	32.64	50.79	90.2	1.003	1.224	Nil	2035
5.							

NO.	P _i	Temp. °F	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.12	528	1.40	Nil	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.13	520	1.38	Nil	Specific Gravity Separator Gas _____ XXXXXXXXXX
3.	.13	516	1.37	Nil	Specific Gravity Flowing Fluid _____ XXXXXX
4.	.13	517	1.37	Nil	Critical Pressure _____ 670 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ 378 _____ R _____ R

NO.	P _i	P _w	P _w ²	P _i ² - P _w ²
1.	525.2	523.2	273.7	2.1
2.		521.2	271.6	4.2
3.		514.2	264.4	11.4
4.		508.7	258.8	17.0
5.				

$$(1) \frac{P_i^2}{P_i^2 - P_w^2} = 16.224$$

$$(2) \left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 4.119$$

$$AOF = Q \left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 8.382$$

Absolute Open Flow: 8,382 Mcfd @ 15.025 Angle of Slope: 63.25 Slope, n: .508

Remarks: Fluid too small to measure.

Approved By: <i>Shirley R. Rangan</i>	Conducted By: Reggie Reston	Calculated By: Reggie Reston	Checked By:
---------------------------------------	-----------------------------	------------------------------	-------------