

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

Form C-122 122
Revised 9-1-65

Received

MAY 25 1981

☒ Initial ☐ Annual ☐ Special				Well No. 5-16-81		Date	
Operator Bass Enterprises				Pipeline Natural Gas Pipeline		Office ARTESIA OFFICE	
Location East Carlsbad				Formation Strawn		Well C	
Completion Date 5/16/81		Total Length		Flow Rate 10825		Elevation 3131.4 GL	
Well No. # 65		From 10544 To 10668		Well No. # 65		Unit C 31 21s 28e	
Well Size 5 1/2		Well ID 20.817		Set At 10825		Perforations From 10544 To 10668	
Well Size 2 3/8		Well ID 4.7		Set At 10510		Perforations From To	
Type well - Single - Production - G.G. or G.O. Multiple				Backer Set At 10510		County Eddy	
Producing thru Tubing		Reservoir Temp. °F 180°		Mean Annual Temp. °F 60°		State New Mexico	
L 10606		R 10606		Gg .6582		% CO ₂ .522	
H 10606		Gg .6582		% H ₂ 1.132		% H ₂ S	
Prover		Meter Run 3"		Flg. Flg.		Date	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
51							4060				24 hrs.
1.	3 x 1.750			450	6.1	69	3980				30 mins
2.	3 x 1.750			450	13.5	50	3850				1 hr.
3.	3 x 1.750			460	20.5	58	3800				45 mins
4.	3 x 1.750			460	31.2	62	3770				45 mins
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor Fg	Super Compens. Factor, F _{sp}	Rate of Flow Q, Mgd
1	15.61	53.16	463.2	.9915	1.233	1.047	1062
2	15.61	79.08	463.2	1.010	1.233	1.055	1622
3	15.61	98.49	473.2	1.002	1.233	1.053	2000
4	15.61	121.51	473.2	.9981	1.233	1.052	2456
5.							

NO.	P _f	Temp. °F	T _f	Z	Gas Liquid Hydrocarbon Ratio	Met/whl.
1	.69	529	1.40	.912	9.998	
2	.69	510	1.35	.899	56.2 @ 60°	
3	.71	518	1.37	.902		
4	.71	522	1.38	.904		
5.						

NO.	BHP	P _w	P _w ²	P _c ² - P _w ²
1	5546.2	3912.6	15308.8	230.6
2	5513.2	3883.4	15080.7	458.7
3	5483.2	3856.2	14870.1	669.3
4	5456.2	3831.2	14677.7	861.7
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 18.033$$

$$ADP = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 15.501$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.311$$

Absolute Open Flow 15,501	Meils 15,025	Angle of Slope 57.5°	Slope .637
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Remarks: **The well produced 22.9 bbls. of distillate & 1.2 bbls. of H 2 O during the test.**

*** Calculated from bottom-hole pressures taken @ 10606 feet.**

Approved By Commission	Conducted By: Davis Services Inc. Rick Pagan	Calculated By:	Checked By:
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