

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Date RECEIVED		Type of Lease State	
Company BASS ENTERPRISES PROD'N CO.		Connection Not connected		Lease No. E-4397	
Pool NORTH TURKEY TRACK		Formation MORROW		Date JUN 16 1980	
Completion Date May 30, 1980		Total Length 11250		Perforations 11,192'	
Casing Size 5 1/2"		Well No. 17		Form or Lease Name PAIMILIO STATE	
Tubing Size 2 3/8"		Set At 10800		Well No. # 1	
Type Well - Single - Packerhead - G.G. or G.O. Multiple SINGLE GAS WELL		Packer Set At 10800		Unit Sec. Twp. Rge. J 1 19s 28e	
Producing thru TBG.		Reservoir Temp. °F 182° 10790		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State NEW MEXICO		County EDDY	
L 10790	H 10790	G _g .6422	% CO ₂ 1.298	% N ₂ .426	% H ₂ S Provor
Meter Run 4"		Type 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	
1.	4 X 1.250			450	1.5	103	3275		24 HRS.
2.	4 X 1.250			450	3.0	105	3210		1 HR.
3.	4 X 1.250			460	18.0	96	3190		1 HR.
4.	4 X 1.250			470	37.0	95	3010		1 HR.
5.	4 X 1.250			470	78.0	95	2800		1 HR.
							2840		4 HRS.

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, Mcf/d
1.	7.469	26.36	463.2	.9610	1.248	1.035	244
2.	7.469	37.28	463.2	.9594	1.248	1.035	345
3.	7.469	92.29	473.2	.9671	1.248	1.039	864
4.	7.469	133.71	483.2	.9680	1.248	1.139	1374
5.	7.469	194.14	483.2	.9680	1.248	1.139	1995

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.69	563	1.51	.933	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.	.69	565	1.52	.934	Specific Gravity Separator Gas	.642
3.	.71	556	1.49	.927	Specific Gravity Flowing Fluid	X X X X X
4.	.72	555	1.49	.926	Critical Pressure	670 P.S.I.A.
5.	.72	555	1.49	.926	Critical Temperature	372 °R

NO.	BHP	P _w	P _w ²	P _e ² - P _w ²
1.	4270.2	3312.5	10972.4	663.5
2.	4149.2	3212.0	10316.7	1319.2
3.	4099.2	3169.5	10045.8	1590.1
4.	4042.2	3120.7	9738.8	1897.1
5.	4025.2	3106.6	9651.2	1984.7

* P_e 3411.1 P_e² 11635.9

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 5.863$

(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 5.863$

AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 11.696$

4387.2 3411.1 -SIP 11,696 Mcd @ 15.075 Angle of Slope = 45 Slope, n = 1.000

Remarks: * PRESSURES TAKEN FROM A BOMB SET AT 10790 ft.
5 BBLs OF WATER WERE PRODUCED DURING THE TEST.

Approved By Commission:	Conducted By: DAVIS SERVICES INC.	Calculated By: RICK PAGAN	Checked By:
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