

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

SP
File
122 Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-28-79		DEC 7 - 1979	
Company TEXAS OIL & GAS CORPORATION				Connection TRANSWESTERN PIPELINE COMPANY		O. C. C. ARTERIA, OFFICE	
Pool CATCLAW DRAW Morrow				Formation MORROW		Unit M	
Completion Date 7-31-79		Total Depth 10,776		Plug Back TD 10,736		Elevation 3311 GR	
Farm or Lease Name CATCLAW DRAW STATE COM.				Well No. 1			
Csg. Size 4 1/2"	Wt. 9.50	d 4.090	Set At 10,776	Perforations: From 10,404 To 10,700		Unit Sec. Twp. Rge. M 18 21S 26E	
Tbg. Size 2 3/8"	Wt. 4.60	d 2.375	Set At 10,297	Perforations: From OPEN To END		County EDDY	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 10,297		State NEW MEXICO	
Producing Thru TUBING		Reservoir Temp. °F 180° 10,552		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10,552	H 10,552	G _g 596	% CO ₂ .842	% N ₂ .552	% 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							1405				46 HRS.
1.	4 x 1.250			400	6.76	59	1290				1 HR.
2.	4 x 1.250			400	14.44	80	1230				1 HR.
3.	4 x 1.250			400	31.36	78	1137				1 HR.
4.	4 x 1.250			405	54.76	82	1047				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.	7.469	52.85	413.2	1.001	1.295	1.038	531
2.	7.469	77.24	413.2	.9813	1.295	1.033	757
3.	7.469	113.83	413.2	.9831	1.295	1.033	1118
4.	7.469	151.33	418.2	.9795	1.295	1.033	1481
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/abl.
1.	.62	519	1.45	.929	A.P.I. Gravity of Liquid Hydrocarbons 58 @ 60	Deg.
2.	.62	540	1.51	.938	Specific Gravity Separator Gas 596	XXXXXXX
3.	.62	538	1.50	.937	Specific Gravity Flowing Fluid XXXXX	
4.	.62	542	1.51	.938	Critical Pressure 671 P.S.I.A.	P.S.I.A.
5.					Critical Temperature 358 R	R

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²
1	1678.2	1330.1	1769.2	242.1
2	1604.2	1272.8	1620.0	391.3
3	1501.2	1192.9	1423.0	588.3
4	1414.2	1125.3	1266.3	745.0
5	1823.2	S.I.P.		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.700$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.998$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.700$

Absolute Open Flow	3,998	Mcf/d @ 15.025	Angle of Slope @	45°	Slope, n	1.000
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Remarks: WELL PRODUCED 1.38 BBL. OF CONDENSATE DURING THE TEST.

Approved By Commission:	Conducted By: W.S.	Calculated By: R.P.	Checked By: J.W.W.
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