

MEXICO OIL CONSERVATION COMM
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Revised 10-1-60 **RECEIVED**

Pool Indian Basin		Formation Cisco Canyon		County Eddy	
Initial X	Annual	Special	Date of Test 9-3-65		
Company Standard Oil Co. of Texas		Lease Bogle Flats Unit		Well No. 4	
Unit F	Sec. 10	Twp. 22S	Range 23E	Purchaser O. C. C. ARTESIA, OFFICE	
Casing 5 1/2	Wt. 15.5	I.D.	Set at 7630	Perf. 7143	To 7306
Tubing 2 3/8	Wt.	I.D.	Set at 7074	Perf. OE	To
Gas Pay:	From 7143	To 7306	L 7074	G 0.675	GL 4775
					Bar. Press. 13.2
Producing Through:		Casing	Tubing X	Type Well — Single — Braden head — G.G. or G.O. Dual Single	
Date of Completion 8-27-65		Packer 7060		Reservoir Temp. 154	

OBSERVED DATA

Tested Through: Prover ☐ Choke ☐ Meter ☒								Type of Taps Flange		
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	10000 (Line) Size	XXXXX (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
SI						2345	74			24 hrs
1.	3	2"	738	28.5	78	2249	72			1 hr
2.	3	2"	780	33	80	2228	73			1 hr
3.	3	2"	825	37	78	2203	74			1 hr
4.	3	2"	913	40.5	79	2175	74			1 hr
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15,025 psia
1.	27.52	146.3	751.2	.9831	.9645	1.069	4081.1
2.	27.52	161.8	793.2	.9813	.9645	1.069	4505
3.	27.52	176.1	838.2	.9831	.9645	1.079	4958
4.	27.52	193.7	926.2	.9822	.9645	1.085	5479
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 90.057 cf/bbl. Specific Gravity Separator Gas .6444
 Gravity of Liquid Hydrocarbons 54.4 deg. Specific Gravity Flowing Fluid 0.675
 F_c (1-e^{-S}) P_c 2358.2 P_c² 5,561

No.	$\frac{P_w}{P_t}$ psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _t & P _s XXXX	P _t ² & P _s ² XXXX	P _t ² - P _s ² XXXX	$\frac{P_w}{P_c}$
1.						2894.2	8376		
2.	Bottom Hole Pressures Recorded with					2883.2	8313	63	
3.	Amerada RPG-3 Gauge					2879.2	8290	86	
4.	Back Pressure Curve is P_t² - P_s²					2876.2	8273	103	
5.						2872.2	8250	126	

ABSOLUTE POTENTIAL: 46,000 MCFPD: n 0.50620

COMPANY Standard Oil Co. of Texas WITNESSED Richard Turner

ADDRESS 3610 Avenue "S" Snyder, Texas COMPANY Tefteller, Inc.

AGENT AND TITLE _____