

NE MEXICO OIL CONSERVATION COMMS N
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-29-85	
Company BTA Oil Producers				Connection Phillips Petroleum Company			Lse NM-20979
Pool Lea				Formation Pennsylvanian			Unit
Completion Date 8-18-84		Total Depth 13,500'		Plug Back TD 13,414'		Elevation 3,674'	
Farm or Lease Name Lynch, 8212 JV-P							
Csg. Size 5-1/2"	Wt. 20#	d	Set At 13,500'	Perforations: From 13,070' To 13,084'			Well No. 1
Tbg. Size 2-7/8"	Wt.	d	Set At 12,940'	Perforations: From To			Unit Sec. Twp. Rge. J 24 20-S 34-E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 12,949'		County Lea	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _g State New Mexico	
L	H	G _g 0.697	% CO ₂ 0.65	% N ₂ 0.53	% H ₂ S 0	Prover	Meter Run 4.026 Taps F

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							4490	60			
1.	4.026 X 2.750			195	2	90	4375	60	Pkr		1 hr
2.	4.026 X 2.750			195	8	85	4310	60	Pkr		1 hr
3.	4.026 X 2.750			210	18	81	4185	60	Pkr		1 hr
4.	4.026 X 2.750			216	29	73	4075	60	Pkr		1 hr
5.											

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, Mcfd
1	41.10	20.405	208.2	0.9723	1.198	1.023	999
2	41.10	40.812	208.2	0.9768	1.198	1.021	2,004
3	41.10	63.385	223.2	0.9804	1.198	1.022	3,127
4	41.10	81.528	229.2	0.9877	1.198	1.022	4,052
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	12.345	Mcf/bbl.
1.	0.31	533	1.36	0.956	A.P.I. Gravity of Liquid Hydrocarbons	51	Deg.
2.	0.31	541	1.38	0.959	Specific Gravity Separator Gas	0.697	XXXXXXX
3.	0.33	545	1.39	0.957	Specific Gravity Flowing Fluid	XXXXX	0.9334
4.	0.34	550	1.40	0.958	Critical Pressure	667	P.S.I.A. 661
5.					Critical Temperature	392	R 467

P _c 4503.2 P _c ² 20,279				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1			19,254	1,025
2			18,690	1,589
3			17,625	2,654
4			16,713	3,566
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{20,279}{3,566}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.5946$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 18,617$

Absolute Open Flow	18,617	Mcfd @ 15.025	Angle of Slope °	48.7	Slope, n	0.877
Remarks:						

Approved By Commission:	Conducted By: J. Loughmiller	Calculated By: <i>O. V. Sivage</i>	Checked By:
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RECEIVED

APR 18 1985

Abstract