

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-7-68	
Company Phillips Petroleum Company		Connection	
Pool Undesignated		Formation Morrow	
Completion Date 6-13-68		Total Depth 13,623'	Plug Back TD 13,587'
		Elevation 4103	Farm or Lease Name Lea
Csg. Size 5-1/2"	Wt. 15.5, 17, 20#	d 4.95	Set At 13,623'
Perforations: From 13,224' To 13,512'		Well No. 23	
Thg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 13,178'
Perforations: From Open To Ended		Unp. Sec. 30 17-S 34E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At 13,170'
County Lea			State New Mexico
Producing Thru 13,178	Reservoir Temp. °F 182 @ 13,397'	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
G _g .615	% CO ₂ 2	% N ₂ —	% H ₂ S —
Prover 2"	Meter Run —	Taps —	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow Hr.
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				2770		72	2770	72	Packer		59 Hr.
1.	2.00	x	1/16	2310		74	2310	74	"		1 "
2.	2.00	x	3/32	1800		75	1800	75	"		1 "
3.	2.00	x	1/8	1260		77	1260	77	"		1 "
4.	2.00	x	3/16	540		78	540	78	"		1 "
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 _{sp}	Rate of Flow Q, Mcfd
1.	.06405		2323.2	.9868	1.275	1.149	215
2.	.1410		1813.2	.9859	1.275	1.136	365
3.	.2648		1273.2	.9840	1.275	1.104	467
4.	.6082		553.2	.9831	1.275	1.045	440
5.							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	3.46	534	1.48	.758	Trace	49.1	.615	—	—	—
2.	2.70	535	1.48	.775			—	—	—	—
3.	1.90	537	1.48	.820			—	—	—	—
4.	.82	538	1.49	.916			—	—	—	—
5.										

NO.	P _c	P _c ²	P _w	P _w ²	P _w ² - P _c ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
1.	5397.2	29130.6	2323.5	5398.7	2348.7	1.266	1.209
2.	3287.7	10809.1	1814.4	3292.0	4455.3	6118.9	—
3.	1621.0	2627.6	1276.1	1628.5	6118.9	—	—
4.	306.0	936.4	560.0	313.6	7433.7	—	—
5.							

Absolute Open Flow 565	Mcfd @ 15.025	Angle of Slope 51.33	Slope, n .805
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***P_w's were calculated by Phillips' computer program #4137 which is based on IOCC Manual. Well produced small (trace) amount of distillate during routine test producing but not in this test.**

Approved By Commission:	Conducted By: W. D. Adcock	Calculated By: D. E. Simpson	Checked By:
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