

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-24-79		MAY 9 1979		
Company CONTINENTAL OIL COMPANY					Connection NONE		O. C. C. ARTESIA, OFFICE		
Pool SOUTH EMPIRE MIDDLE					Formation MORROW		Unit 6		
Completion Date 3-22-79		Total Depth 10,680'		Plug Back TD 10,792'		Elevation 3646' 4L		Farm or Lease Name STATE 19 COMM.	
Csq. Size 5 1/2"	Wt. 17#	d 10,680'	Set At 10,680'	Perforations: From 10,679' To 10,687'		Well No. 1			
Thq. Size 2 7/8"	Wt. 6.5#	d 2.441	Set At 10,609'	Perforations: From OPEN To ENDED		Unit DN 19	Sec. 175	Twp. 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At 10,575'		County EDDY		
Producing Thru TB6.		Reservoir Temp. °F 166° @ 10,772'		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 10,609'	H 10,609'	G _g .670	% CO ₂ .39	% N ₂ .86	% H ₂ S .01	Prover	Meter Run 4"	Taps FLANGE	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	16 HES (STABILIZED)						2017	70			
1.	4"	X	1.750"	570	4	72	1896	70			1 HR
2.	4"	X	1.750"	585	8	74	1806	71			1 HR
3.	4"	X	1.750"	585	16	70	1703	72			1 HR
4.	4"	X	1.750"	590	31	65	1492	72			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	14.93	48.299	563.2	.9887	1.222	1.061	92.4
2	14.93	69.178	598.2	.9868	1.222	1.061	132.1
3	14.93	97.833	598.2	.9905	1.222	1.063	187.9
4	14.93	136.745	603.2	.9952	1.222	1.068	265.2
5							

NO.	P _t	Temp. °R	T _f	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	.87	532	1.39	.888	DRY		.670	XXXXXX	669	382
2	.89	534	1.40	.888				XXXXX		
3	.89	530	1.39	.885						
4	.90	525	1.37	.877						
5										

P_c **2087.5** P_c² **4357.7**

NO	BHP	P _w	P _w ²	P _c ² - P _w ²
1	2696.2	2003.5	4014.0	343.7
2	2567.2	1911.4	3653.5	704.2
3	2391.2	1762.8	3118.4	1179.3
4	2110.2	1579.4	2494.5	1863.2
5	2809.2 (SI BHP)			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{2.339}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.858}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{4.927}$

Absolute Open Flow	4.927	Mcfd @ 15.025	Angle of Slope θ	53.9°	Slope, n	.729
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Remarks: **BHP WERE MEASURED @ 10,772' W/ AMERADA RP6-3 GAUGE, 5/19/89, 0-6000 PSIG RANGE. BHP WERE CALCULATED @ 7055 OR 10,701' DEPTH.**

Approved By Commission:	Conducted By: TOM C. ADHEDDELL	Calculated By: TOM C. ADHEDDELL	Checked By:
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