

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 4-28-81		JUN 08 1981	
Company Perry R. Bass		Location Air		O.C.D.	
Well Undesignated		Formation Morrow		UNIT ARTESIA, OFFICE Poker Lake Unit	
Completion Date 4-28-81		Total Depth 14470		Elevation 3270 KB	
Csg. Size 5" liner		Set At 14467		Perforations From 14307 To 14349	
Trg. Size 2 3/8		Set At 13813		Perforations From To	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single Gas		Packoff Set At 13800		Well No. # 49	
Producing thru Tubing		Reservoir Temp. °F 212 ^a 13831		Mean Annual Temp. °F 60 ^o	
		Buro. Press. - P _a 13.2		State New Mexico	
L 13831		H 13831		G _g .5876	
		% CO ₂ 3.056		% N ₂ .261	
		% H ₂ S		Prover 4 "	
				Meter Run Elg.	

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							5425				72 Hr.
1.	4 x 1.500			490	5.0	110	4480				1 Hr.
2.	4 x 1.500			490	8.0	102	3825				1 Hr.
3.	4 x 1.500			490	12.0	90	3025				1 Hr.
4.	4 x 1.500			480	17.0	98	2650				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 Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd
1	10.84	50.16	503.2	.9551	1.304	1.028	696
2	10.84	63.45	503.2	.9619	1.304	1.029	888
3	10.84	77.71	503.2	.9723	1.304	1.031	1101
4	10.84	91.57	493.2	.9653	1.304	1.029	1286
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	dry	Mcf/bbl.
1.	.74	570	1.63	.947	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	.74	562	1.61	.944	Specific Gravity Separator Gas	.5876	XXXXXXX
3.	.74	550	1.58	.940	Specific Gravity Flowing Fluid	XXXXXX	
4.	.72	558	1.60	.944	Critical Pressure	684	P.S.I.A.
5.					Critical Temperature	349	R

P _c 5438.2 P _c ² 29574.0		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.323$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.299$	
NO.	BHP	P _w	P _w ²	P _c ² - P _w ²	
1	5794.2	4493.5	20191.3	9382.7	
2	5028.2	3845.1	14785.0	14789.0	
3	4287.2	3235.7	10469.5	19104.5	
4	3596.2	2687.0	7219.7	22354.3	
5	6880.2	S.I.P.			

Absolute Open Flow		1,671	Mcf @ 15.025	Angle of Slope	47 ^o	Slope, n	.936
Remarks:							
Approved by Commission:		Conducted By:		Calculated by:		Checked By:	
Davis Services Inc.		Rick Pagan					