

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

File 122 Form C-122 Revised 9-1-63

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-7-80		MAR 31 1980	
Company H.L. BROWN JR.				Connection AIR		O. C. D.	
Pool BURTON FLATS <i>Memor</i>				Formation MORROW		Unit ARTESIA, OFFICE	
Completion Date 2-8-80		Total Depth 11,675 ft.		Plug Back TD 11,360 ft.		Elevation 3,239 KB	
Csg. Size 5 1/2		Well d		Set At 11,675		Perforations: From 11.422 To 11.468	
Thq. Size 2 3/8		Well d		Set At 11,360		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 11,360		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 192 • 11,475		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 11,360		H 11,360		Assumed .605		% CO ₂ .54	
						% N ₂ .27	
						% H ₂ S 0	
				Prover 6"		Meter Run Positive	
						Taps Check	

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						60	3.503		PACKER	SI	19 Hrs
1.	6" x	3/64		2,434		60	2,434	60			1Hr 40M
2.	6" x	12/64		1,387		60	1,387	60			1Hr
3.	6" x	16/64		800		60	800	60			1Hr
4.	6" x	20/64		450		60	450	60			1Hr
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	.2618		2,447	1.000	1.286	1.162	957
2	.6101		1,400	1.000	1.286	1.156	1,270
3	1.112		813	1.000	1.286	1.073	1,247
4	1.771		463	1.000	1.286	1.041	1,098
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>Dry</u> Mcf/bbl.
1	3.64	520R	1.45	.740	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	2.00	520R	1.45	.748	Specific Gravity Separator Gas <u>.605</u> XXXXXXXXXX
3	1.21	520R	1.45	.868	Specific Gravity Flowing Fluid <u>XXXXX</u>
4	.69	520R	1.45	.922	Critical Pressure <u>671</u> P.S.I.A. _____ P.S.I.A.
5					Critical Temperature <u>360</u> R _____ R

P _c <u>4,472</u>	P _c ² <u>19,999</u>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3361$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6845$
NO.	P _r ²	BHP _w	R _w ²
1		3,382	11,438
2		2,493	6,215
3		1,746	3,049
4		1,289	1,662
5	SIP	4,472	

Absolute Oper. Flow <u>1,612</u> Mcfd @ 15.025		Angle of Slope <u>58°</u>	Slope, n <u>0.6146</u>
Remarks: _____			
Approved By Commission:	Conducted By: B.J. CATHEY	Calculated By: D. BENNETT	Checked By: