

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

Form C-127
Revised 9-11-65

AUG 23 1974

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-30-74		O. C. C. ARTESIA, OFFICE	
Company David Fasken				Connection Unconnected					
Pool Undesignated				Formation Morrow				Unit	
Completion Date May 23, 1974		Total Depth 9650		Plug Back TD 9535		Elevation 3537 KB		Farm or Lease Name Gossett "20"	
Csg. Size 4 1/2	Wt. 11.60	d 3.875	Set At 9601	Perforations: From 9272 To 9492				Well No. 1	
Tbg. Size 2 1/2	Wt. 6.50	d 2.347	Set At 9200	Perforations: From To				Unit 0	Sec. 20
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At 9200				County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 170 @ 9412'		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State New Mexico	
L 9382	H 9382	Gg 0.610	% CO ₂	% N ₂	% H ₂ S	Prover Pos. Choke		Meter Run	Taps

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	167 hours			3088		70	3088	70	Pkr.		
1.	2"	X	8/64	3022		60	3022	60			30 min.
2.	2"	X	11/64	2938		62	2938	62			30 min.
3.	2"	X	16/64	2605		65	2605	65			30 min.
4.	2"	X	23/64	2400		66	2400	66			60 min.
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	0.2618		3035.2	1.0000	1.280	1.146	1165.6
2.	0.5090		2951.2	0.9981	1.280	1.148	2203.1
3.	1.1120		2618.2	0.9952	1.280	1.150	4265.1
4.	2.1620		2413.2	0.9943	1.280	1.155	7669.3
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	Used Simplified				Specific Gravity Separator Gas	0.610	X X X X X X X X
3.	Supercompressibility Tables				Specific Gravity Flowing Fluid	X X X X X	
4.					Critical Pressure	671	P.S.I.A.
5.					Critical Temperature	362	R

P _f 3860.2	P _f ² 14901		
NO.	P _t ²	P _s ²	P _f ² - P _s ²
1		3770.2	14214
2		3677.2	13522
3		3311.2	10964
4		3077.2	9469
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____

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

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____

Absolute Open Flow	19,000	Mcf/d @ 15.025	Angle of Slope	47° 46'	Slope, n	0.90794
Remarks: BHP measured with Amerada RPG-3 gauge 9383N 0-6050 psig.						
Approved By Commission:		Conducted By: Tefteller, Inc.		Calculated By: F. Tefteller		Checked By: