

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

File
122 Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2/13/80		FEB 22 1980	
Company David Fasken ✓				Connection NGPL of America		O. C. D. ARTESIA, OFFICE	
Pool Cemetery (Morrow)				Formation Morrow		Unit	
Completion Date 10-22-79		Total Depth 10,000'		Plug Back TD 9612'		Elevation 3756.6' KB	
Farm or Lease Name Shell Fed. Comm.		Well No. 5		Perforations: From 9547' To 9573'		Unit Sec. Twp. Rge. G 5 21-S 24-E	
Csg. Size 4 1/2"	Wt. 11.60	Id 4.000	Set At 10,000'	Perforations: From To		Unit Sec. Twp. Rge.	
Tbg. Size 2 3/8	Wt. 4.70	Id 1.995	Set At 9392'	Perforations: From To		Unit Sec. Twp. Rge.	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9399'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 176 @ 9560'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico		Prover 9560		Meter Run X		Taps Flange	
L 9560		H 9560		G _g 0.600		% CO ₂ N/A	
						% N ₂ N/A	
						% H ₂ S N/A	

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
1.	2" X 0.500'			7.35	5.5	48	932	58	Pkr.	-	1 hour
2.	2" X 0.500'			7.35	4.8	49	970	62	Pkr.	-	1 hour
3.	2" X 0.500'			7.25	3.8	49	1018	63	Pkr.	-	1 hour
4.	2" X 0.500'			7.30	2.3	49	1080	64	Pkr.	-	1 hour
5.	L-10 Chart										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure L-10 Factor	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	1.189	40.425	3.873	1.0117	1.291	1.080	264.71
2.	1.189	35.280	3.873	1.0107	1.291	1.080	228.75
3.	1.189	27.550	3.873	1.0107	1.291	1.080	178.78
4.	1.189	16.790	3.873	1.0107	1.291	1.080	108.96
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas 0.600 XXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX
4.					Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 358 R _____ R

P _f 1933.2 P _f 3737				
NO.	P _t ²	1582.2	2503	1234
1.		1634.2	2671	1066
2.		1698.2	2884	853
3.		1770.2	3134	603
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.02836$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 801.637$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.02836$

Absolute Open Flow	801.637	Mcf/d @ 15.025	Angle of Slope °	45.0°	Slope, n	1.0000
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Remarks: BHP MEASURED WITH AMERADA RPG-3 GAUGE

Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: L. Marruffo	Checked By:
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