

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 11-6-74		DEC 9 1974	
Company David Fasken				Connection None					
Pool Cemetery (Morrow)				Formation Morrow				Unit B.G.C. ARTESIA, OFFICE	
Completion Date 11-1-74		Total Depth 9750'		Plug Back TD 9579'		Elevation 3577' GL		Form or Lease Name Howell 29 Fed.	
Cas. Size 4 1/2"	Wt. 11.60	d 4.052 4.000	Set At 9650	Perforations: From 9284 To 9294		Well No. 1			
Tub. Size 2 3/8"	Wt. 4.60	d 1.995	Set At 8979	Perforations: From To		Unit Sec. Twp. Rge. M 29 20S 25E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 8979'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 163 @ 8900		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State New Mexico	
L 9289	H 9289	G _g 0.600	% CO ₂	% N ₂	% H ₂ S	Prover Pos. ck.	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	70 hrs.			2980							
1.	2"	X	8/64"	2534		60		70			60 min.
2.	2"	X	9/64"	2337		62		70			60 min.
3.	2"	X	10/64"	2216		65		70			60 min.
4.	2"	X	11/64"	2258		65		70			60 min.
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	0.2618		2547.2	1.0000	1.291	1.161	999.5
2	0.3346		2350.2	0.9981	1.291	1.159	1174.4
3	0.4173		2229.2	0.9952	1.291	1.152	1376.8
4	0.5090		2271.2	0.9952	1.291	1.153	1712.5
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	3.80	520	1.45	0.742	A.P.I. Gravity of Liquid Hydrocarbons	Dry Gas	Deq.
2.	3.50	522	1.46	0.745	Specific Gravity Separator Gas	0.600	XXXXXXXXXX
3.	3.32	525	1.47	0.753	Specific Gravity Flowing Fluid	XXXXX	
4.	3.38	525	1.47	0.752	Critical Pressure	671	P.S.I.A.
5.					Critical Temperature	358	R

P _f 3763.2 P _f ² 14162				(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$	
NO.	P _t ²	P _s	P _s ²	P _f ² - P _s ²			
1		3247.2	10544	3618			
2		3003.2	9019	5143			
3		2857.2	8164	5998			
4		2906.2	8446	5716			
5							

Absolute Open Flow		3900	Mcf/d @ 15.025	Angle of Slope @		Slope, n	1.000
Remarks: BHP measured with Amerada RPG-3 Gauge ser. no. 9383N 0-6000 psi							
Approved By Commission:		Conducted By: Tefteller, Inc.		Calculated By: F. Tefteller		Checked By:	