

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

Form C-122
Revised 9-1-65

REEL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-2-71		AC 1 1971	
Company V. H. Westbrook		Connection NONE		Unit ARTESIA, D. FIDE	
Field Golden Lane		Formation Morrow Gas		Unit 320	
Completion Date 11-2-71		Total Depth 12770'		Form or Lease Name Cowden Federal	
Casing Size 1 1/2		Well No. 1		Well No.	
Tub. Size 2		Perforations: From 12614' To 12622'		Unit Sec. Twp. Rge. K 4 21s 29e	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 12187'		County Eddy	
Producing Thru Tubing		Baro. Press. - P _a 13.2		State New Mexico	
L H Gg		% CO ₂ % N ₂ % H ₂ S		Prover Meter Run Taps	
12618' - 0.595		0.95 0.29 0.00		X Flange	

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. DW	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	3		1.5				3839		PACKER		69.0 hrs
1.	3	7/64	1.5	760	7	97	3582	72	-	-	1.0
2.	3	10/64	1.5	720	24	80	3313	74	-	-	1.0
3.	3	13/64	1.5	710	53	60	2903	72	-	-	1.5
4.	3	15/64	1.5	760	87	70	2468	72	-	-	2.0
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	11.13	73.63	773.2	0.9662	1.296	1.048	1075.5
2	11.13	132.66	733.2	0.9813	1.296	1.052	1976.1
3	11.13	195.77	723.2	1.000	1.296	1.058	2987.8
4	11.13	259.35	773.2	0.9905	1.296	1.059	3924.7
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.15	557	1.59	0.911	DRY GAS	-	0.595	XXXXXX	675	350
2	1.09	540	1.54	0.904			XXXXX			
3	1.07	520	1.49	0.893						
4	1.15	530	1.51	0.891						
5										

NO.	P _t	P _w	P _c	P _c - P _w	(1) $\frac{P_c^2}{P_c^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
1	1276.2	24762.6			12.104	9.06
2		1766.222716.7	2045.9			
3		1548.220686.1	14076.5			
4		4284.248354.4	6108.2			
5		3993.245945.6	8817.0			

Actual open flow	9750	Mcf @ 15.025	Angle of Slope	48°31'	Slope, n	0.884
Remarks: * BHP @ (-9165') 12618' used for pressure calculations						
Approved By Commission:	Conducted By:	Calculated By:	Checked By:			
	COLEMAN PET. ENG.	JOE A. COLEMAN	JOE A. COLEMAN			