

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7/11/80	
Company Consolidated Oil & Gas				Connection Gas Co. of New Mexico			
Pool Basin				Formation Dakota		Unit	
Completion Date 7/4/80		Total Depth		Plug Back TD 7117		Elevation 5973 KB	
Farm or Lease Name Southern Union		Well No. 1-M		Perforations: From 6880 To 7110		Set At 7135	
Csg. Size 5.500		Wt. 15.50		d 4.950		Perforations: From To	
Tbg. Size 1.900		Wt. 2.75		d 1.610		Set At 7015	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple GG Dual				Packer Set At 5090		County San Juan	
Producing Thru Tbg		Reservoir Temp. °F @		Mean Annual Temp. °F 12		Baro. Press. - P _a 12	
L		H		Gg		Prover	
				0.650			
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
1.	2"		0.750	60		82 ^D	3 Hrs
2.							
3.							
4.							
5.							
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		72	0.9795	0.9608	1.008	845
2.							
3.							
4.							
5.							
NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ R		
1.					XXXXXXXXXX XXXXXX P.S.I.A. R		
2.							
3.							
4.							
5.							
P _c 1652 P _c ² 2729104					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0223$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0167$		
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 859$		
1	5184	244	59536	2669568			
2							
3							
4							
5							
Absolute Open Flow					859		Slope, n 0.75
Remarks:							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	
				Sonny Wilson			

TEMPERATURE ★

Wilson Service Co.

★ SURVEYS ★ ★

P. O. BOX 1619 • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 327-2575

Pressure Survey

COMPANY...Consolidated Oil & Gas LEASE....Southern Union..... WELL...1-M.....
FIELD....Basin Dakota..... LOCATION.....Sec 19.....Twp. 31.....Rge 12.....
COUNTY....San Juan..... STATE....New Mexico..... DATE.....7/11/80.....
MUT-IN..... ELEVATION.....5973 KB..... DATUM.....
ZERO POINT.....KB..... TBG. PRESSURE.....1640..... CASING PRESSURE.....
3G. DEPTH.....7015'..... CASING SET.....7135..... P.B.T.D.7117.....
WACKER SET.....5090..... CASING PERF. ,6880.to.7110..... MAX. TEMP. ...82⁰.....
FLUID LEVEL.....

DEPTH	PRESSURE	GRADIENT
Lube	1644	.000
1000	1709	.06
3000	1833	.06
5000	1947	.06
6000	2007	.06
6500	2037	.06
7000	2068	.06



