

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

660 FAL
660 FEL

Form C-122
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 9-10-75	
Company CONTINENTAL OIL CO		Connection TRANSWESTERN PIPELINE CO	
Pool BELL LAKE		Formation MORROW	
Completion Date 8-28-75	Total Depth 14,140	Plug Back TD 13,954	Elevation 3601
Farm or Lease Name BELL LAKE UNIT 5		Well No. 16	
Csg. Size 7 7/8	Wt. 35.7-39	Set At 12331	Perforations: From 13802 To 13830
Tub. Size 3.50	Wt. 9.30	Set At 12034	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		Packer Set At 11,991	County LEA
Producing Thru Tubing	Reservoir Temp. °F a	Mean Annual Temp. °F	Baro. Press. - P _a
L	H	G _g .583	% CO ₂ 0.0037
			% N ₂ 0.0027
			% H ₂ S -
		Prover	Meter Run X
			Taps X

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	4.026		2.00				7155	76			72 hrs
1.	4.026		2.00	850	16	75	6248	77			2,167 hrs
2.	4.026		2.00	840	32	110	5825	84			3,833 hrs
3.	4.026		2.00	835	53.5	110	5273	87			1,500 hrs
4.	4.026		2.00	740	79.3	109	4943	93			1,756 hrs
5.											

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
2	"	105.33	853.2	.9551	1.310	1.052	4.311
3	"	212.87	848.2	.9551	1.310	1.052	5.550
4	"	260.55	853.2	.9551	1.310	1.052	6.794
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 4 BBL PER 10 Mcf/bbl.
1	1225	552	1.594	.962	A.P.I. Gravity of Liquid Hydrocarbons 43.8
2	1.369	570	1.628	.965	Specific Gravity Separator Gas .582
3	1.510	590	1.658	.964	Specific Gravity Flowing Fluid X X X X X
4	1.670	591	1.626	.965	Critical Pressure 672
5					Critical Temperature 350

P_c 8773.4 P_w 27,334

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1	78074	15766	16355	16355
2	78074	54560	22764	22764
3	12437	47411	35413	35413
4	62906	40830	36472	36472
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^{.937} \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.343$

AGF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.311 \times 3.343 = 14.41 \text{ MMCFD}$

Actual Open Flow 14.41 MMCFD @ 15.025 Angle of Slope 0 Slope, n 0.937

Remarks:

Approved by Commission: John W. Runyan Conducted by: Walter Anderson Calculated by: Walter Anderson Checked by: