

NG&GP (2)
 NMOCC
 USGS
 File

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 5-2-74	
Company CONTINENTAL OIL CO		Connection NONE	
Pool MORROW		Unit BELL LAKE UNIT #1	
Completion Date	Total Depth	Plug Back TD	Elevation
Csg. Size 3 1/8		Wt. 33.7	Set At 13147
Tbg. Size 2 7/8		Wt. 6.50	Set At 11891
Perforations: from 13854 To 13923		Well No. 14	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Packer Set At	County LEA
Producing Thru 769	Reservoir Temp. °F 117.95	Mean Annual Temp. °F 117.95	Baro. Press. - P _a 0.572
H 11.795	G _g 0.572	% CO ₂ -	% N ₂ -
% H ₂ S -	Prover 4"	Meter Run 4"	Taps FLA

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.	4"		2.250	560	12.50	85	6810	72			1 hr
2.	4"		2.250	560	25.30	108	6753	74			1 hr
3.	4"		2.250	565	42.25	108	6700	76			1 hr
4.	4"		2.250	568	62.40	95	6650	78			1 hr
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	2599	24.11	560.0	1.071	1.322	1.000	2313
2	"	12.61	560.0	1.051	"	1.000	2100
3	"	15.12	565.0	1.057	"	1.000	2221
4	"	17.00	568.0	1.050	"	1.000	2541
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcfd/bbl.
1	.853	532	1.54	.921	A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2	.853	534	1.54	.921	Specific Gravity Separator Gas	XXXXXXX
3	.850	536	1.55	.925	Specific Gravity Flowing Fluid	XXXXX
4	.865	538	1.55	.924	Critical Pressure	672 P.S.I.A.
5					Critical Temperature	346 R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	728.0	74.12	5492.6	2.174
2	728.0	74.12	5492.6	5.222
3	728.0	74.12	5492.6	2.174
4	728.0	74.12	5492.6	4.121
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 24.926$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 20.040$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 82.0$

Absolute Open Flow **82.0** Mcfd @ 15.025

Angle of Slope θ _____ Slope, n _____

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
<i>[Signature]</i>			