NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

N

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 5-12-76	
Company: CONTINENTAL OIL CO.	Connection: NONE		
Pool: SOUTH LEA MORROW UNDESIGNATED	Formation: MORROW		Unit
Completion Date: 5-12-76	Total Depth: 14930	Plug Back TD: 14600	Elevation
Csg. Size: 7"	Wt.	d	Set At: 14325 / 14930
Tbg. Size: 2 7/8	Wt.: 6.50	d	Set At: 12797
Perforations: From 12965 To 13376			Farm or Lease Name: BRADLEY A
Perforations: From To			Well No.: 1
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 12791	Unit: F; Sec.: 19; Twp.: 23; Rge.: 34
Producing Thru: TBG	Reservoir Temp. °F: 185° @ 13171'	Mean Annual Temp. °F	Baro. Press. – P_a: 15.025
			County: LEA
			State: NEW MEXICO

	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		0.593	0	0	0		4"	FLG

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI						7065	73°	—		
1.	3.826	1.750	680	12	97°	6779	76°	—		1½ HR
2.	"	"	600	28	97°	6577	77°	—		1 HR
3.	"	"	605	40.5	96°	6443	79°	—		1 hr 5 min
4.	"	"	630	56	96°	6250	78°	—		1½ hr
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	15.01	82.129	613.2	.9662	1.299	1.043	1613
2.	"	130.980	613.2	.9662	1.299	1.043	2572
3.	"	158.109	618.2	.9671	1.299	1.043	3108
4.	"	189.692	643.2	.9671	1.299	1.045	3672
5							

NO.	P_t	Temp. °R	T_r	Z
1.	.912	557	1.57	.919
2.	.912	557	1.57	.919
3.	.920	556	1.57	.919
4.	.957	556	1.57	.960
5.				

Gas Liquid Hydrocarbon Ratio 4700 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 59° Deg.
Specific Gravity Separator Gas 0.593 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure ____ P.S.I.A. ____ P.S.I.A.
Critical Temperature ____ R ____ R

P_c 8588.6 P_c^2 7497

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		8347.8	6969	528
2		8133.5	6615	882
3		8025.2	6440	1057
4		7849.1	6159	1338
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.092$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6.065$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 18.85$

Absolute Open Flow 18.85 MMCFD ~~Mcfd~~ @ 15.025 Angle of Slope θ ____ Slope, n ____

Remarks: ____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	WET & JEB	COMPUTER	

MMCFD(3)
PINES(3)
TITLE