NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 4-1-81	
Company: CONOCO, INC.		Connection: EPNG			560'FNL & 1980'FWL
Pool: EUMONT		Formation: QUEEN			Unit: C
Completion Date: 8-27-80	Total Depth: 3780'		Plug Back TD: 3750'	Elevation: 3501'GL	Farm or Lease Name: MEYER B-28A AC/1
Csg. Size: 5½" / Wt.: 15.5# / d: 4.950 / Set At: 3773'			Perforations: From 3511' To 3666'		Well No.: 4
Tbg. Size: 2⅜" / Wt.: 4.7# / d: 1.995 / Set At: 3679'			Perforations: From OPEN To ENDED		Unit: C / Sec.: 28 / Twp.: 20S / Rge.: 37E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: NONE		County: LEA
Producing Thru: TBG. & CSG.	Reservoir Temp. °F: 110 @ 3586'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3679'	3679'	.701	4.24	1.54	1.05	—	4"	FLANGE

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					222		217		96 HRS.
1.	4" x 1.750"	59	1.69	74	119	*	215		60 MIN.
2.	4" x 1.750"	61	26.01	70	104	**	207		60 MIN.
3.	4" x 1.750"	62	40.96	66	205		205	(STABILIZED)	45 MIN.
4.	4" x 1.750"	63	64.80	66	202		195	"	30 MIN.
5.	4" x 1.750"	64	89.30	66	195		185	"	45 MIN.

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	14.93	11.046	72.2	.9866	1.194	NIL	194
2.	14.93	42.931	74.2	.9905	1.194	NIL	776
3.	14.93	55.499	75.2	.9943	1.194	NIL	964
4.	14.93	70.269	76.2	.9943	1.194	NIL	1246
5	14.93	83.030	77.2	.9943	1.194	NIL	1472

NO.	P_t	Temp. °R	T_r	Z
1	0.11	534	1.41	NIL
2.	0.11	530	1.40	NIL
3.	0.11	526	1.39	NIL
4.	0.11	526	1.39	NIL
5	0.11	526	1.39	NIL

Gas Liquid Hydrocarbon Ratio 8.945 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 30.0 @ 60° Deg.
Specific Gravity Separator Gas .701 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 662 P.S.I.A. ____ P.S.I.A.
Critical Temperature 379 R ____ R

P_c 225.2 P_c^2 50.27

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	17.48	228.2	52.08	3.24
2	13.74	220.2	46.49	6.83
3	47.61	218.2	47.61	7.71
4	43.35	216.2	46.74	8.56
5	39.28	208.2	43.35	11.97

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.622$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.622$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6803$

Absolute Open Flow 6,803 Mcfd @ 15.025 | Angle of Slope θ 45.0 | Slope, n 1.000

Remarks: WELL FLOWED 16 BBLS OIL DURING TEST. * WELL STARTED UNLOADING FLUID DURING THIS FIRST PERIOD. ** CHOKE WAS WIDE OPEN, AND STARTED FLOWING WELL THROUGH THE CASING TO OBTAIN REQUIRED DRAWDOWN.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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