N. M. O. C. C.

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

FEB 1 1967

Form C-122
Revised 9-1-65

Type Test: ☐ Initial ☐ Annual ☒ Special				Test Date: 1-23/1-27-67	
Company: Bert Fields, Jr.		Connection			
Pool: Eumont		Formation: Yates		Unit	
Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name: Turner State	
Csg. Size: 5 1/2 / Wt.: 14.0 / d / Set At: 3711		Perforations: From 2890 To 2900		Well No.: 2	
Tbg. Size: 2 / Wt.: 4.7 / d / Set At: 2850		Perforations: From To		Unit: C / Sec.: 32 / Twp.: 20 / Rge.: 37	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At		County: Lea	
Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a: 13.2	State: New Mexico	
L	H	Gg: .669	% CO_2	% N_2	% H_2S / Prover / Meter Run / Taps

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						Closed		600		72 Hrs.
1.	4"	x 1.500	446	10.24	60			537	74	24 Hrs.
2.	4"	x 1.500	479	11.56	62			525	74	24 Hrs.
3.	4"	x 1.500	480	14.44	59			514	74	24 Hrs.
4.	4"	x 1.500	517	9.00	64			521	74	24 Hrs.
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.	10.84	68.57	459.2	1.000	1.223	1.051	955.3
2.	10.84	75.43	492.2	.9981	1.223	1.054	1,052
3.	10.84	84.39	493.2	1.001	1.223	1.054	1,180
4.	10.84	69.08	530.2	.9962	1.223	1.058	964.9
5.							

NO.	P_t	Temp. °R	T_t	Z
1	.69	520	1.38	.905
2.	.73	522	1.38	.901
3.	.74	519	1.37	.900
4.	.79	524	1.39	.894
5.				

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

P_c 613.2 P_c^2 376.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	302.7	73.3	313.1	62.9
2	289.7	86.3	302.3	74.7
3	277.9	98.1	293.8	82.2
4	285.4	90.6	306.8	69.2
5				

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

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 2.957

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 3,489

Absolute Open Flow 3,500 Mcfd @ 15.025 | Angle of Slope θ 54.5 | Slope, n .713

Remarks: Wellhead Slope = 56° - .675

Approved By Commission:	Conducted By: Don Read and J. B. Murray	Calculated By: Don Read	Checked By: