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

Form C-122
Revised 9-1-65

RECEIVED
SEP 15 1980

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 8-25-80	
Company: BTA Oil Producers		Connection: TRANSWESTERN PIPELINE COMPANY			
Pool: North Bell Lake		Formation: Devonian		Unit	
Completion Date: 6/20/80	Total Depth: 14,755'	Plug Back TD: 14,754'	Elevation: 3497' GR	Farm or Lease Name: Bell Lake, 7909 JV-P	
Csg. Size: 5" / Wt.: 23.2 / d / Set At: 14,755'		Perforations: From 14660 To 14708		Well No.: 1	
Tbg. Size: 2 7/8 / Wt.: 6.5 / d / Set At		Perforations: From To		Unit: E / Sec.: 18 / Twp.: 23-S / Rge.: 34-E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 14,300'		County: Lea	
Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
14660		.6129	1.83	1.94	.40		X	Flange

NO.	FLOW DATA: Prover Line Size	x	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							3721	76	Packer		
1.	4"	x	1.250	800	2.5	120	3386	76			75 min.
2.	4"	x	1.250	800	4.2	118	3205	77			90 min.
3.	4"	x	1.250	800	11	116	2375	80			195 min.
4.	4"	x	1.250	800	33	104	2738	80			75 min.
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	7.469	45.089	813.2	.9469	1.277	1.044	425
2.	7.469	58.442	813.2	.9485	1.277	1.044	552
3.	7.469	94.579	813.2	.9501	1.277	1.045	896
4.	7.469	163.816	813.2	.9602	1.277	1.049	1574
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	1.203	580	1.643	.917
2.	1.203	578	1.637	.917
3.	1.203	576	1.631	.915
4.	1.203	564	1.598	.909
5.				

Gas Liquid Hydrocarbon Ratio 259.9 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 51 Deg.
Specific Gravity Separator Gas .6129 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .6248
Critical Pressure 676 P.S.I.A. 676 P.S.I.A.
Critical Temperature 353 R 356 R

P_c _____ P_c^2 _____

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3401.7	11572	2372
2		3216.0	10343	3601
3		2390.8	5716	8228
4		2756.2	7597	6347
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{13944}{6347}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.1969$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3458$

Absolute Open Flow 3,450 Mcfd @ 15.025 | Angle of Slope θ 45° | Slope, n 1.000

Remarks: _____

Orig. Signed by

Approved By Commission: | Conducted By: | Calculated By: Bob K. Newland | Checked By: