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

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 6-12-82	
Company: BTA OIL PRODUCERS			Connection: LLANO, INC.		
Pool: Undesignated			Formation: Wolfcamp		Unit
Completion Date: 5/5/82	Total Depth: 16,100'		Plug Back TD: 13,980'	Elevation: 3366' KB	Farm or Lease Name: 8105 JV-P Mesa
Csg. Size: 7-5/8" / Wt.: 29.7&39 / d: / Set At: 13,700'			Perforations: From 13,367' To 13,778'		Well No.: 1
Tbg. Size: 2-7/8" / Wt.: 6.5 / d: 2.441 / Set At: 12,740'			Perforations: From - - To		Unit: I / Sec.: 1 / Twp.: 26S / Rge.: 32E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 12,740'		County: Lea
Producing Thru: Tbg.	Reservoir Temp. °F: 205 @ 13,778'	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
12,740'	12,740'	0.648	0.35	0.50	0		X	F

	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							60	Pkr.		
1.	3.068	x 1.250	423	62	75	3520	60	Pkr.		24 hr.
2.	3.068	x 1.250	435	26	80	4050	60	Pkr.		2 hr.
3.	3.068	x 1.250	420	12	79	4540	60	Pkr.		2 hr.
4.	3.068	x 1.250	405	2⅛	89	4970	60	Pkr.		2 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.	7.577	164.41	436.2	0.9859	.242	1.041	1,587
2.	7.577	107.95	448.2	0.9813	.242	1.041	1,043
3.	7.577	72.10	433.2	0.9822	.242	1.040	693
4.	7.577	32.33	418.2	0.9732	.242	1.037	307
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.65	535	1.43	0.923
2.	0.67	540	1.44	0.923
3.	0.65	539	1.44	0.925
4.	0.62	549	1.46	0.930
5.				

Gas Liquid Hydrocarbon Ratio: 39.13 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 60.8 Deg.
Specific Gravity Separator Gas: 0.648 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX 0.722
Critical Pressure: 671 P.S.I.A. 669 P.S.I.A.
Critical Temperature: 375 R 398 R

P_c 5219.2 P_c^2 27237

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	12475		12513	14725
2	16508		16526	10712
3	20730		20738	6500
4	24830		24832	2405
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.849$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.7469$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,772$

Absolute Open Flow: 2,772 Mcfd @ 15.025 | Angle of Slope θ: 47.8 | Slope, n: 0.907

Remarks: Ran test in decending order in attempt to obtain reasonable results. Well produces ± 100 Bbl. water per MMCF. Total liquid rate approximately 145 bbl/MMCF.

Approved By Commission: ORIGINAL SIGNED BY JERRY SEXTON	Conducted By:	Calculated By: C. W. Kruse	Checked By: