STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

dist
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

RECEIVED
NOV 23 '88
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11-11-88	
Company: BRAN OIL CORPORATION		Connection: 10-12-88			Unit: O, S-33
Pool: PECOS SLOPE ABO		Formation: ABO			
Completion Date: 10-7-88	Total Depth: 4400	Plug Back TD: 4352	Elevation: 3625 KB		Farm or Lease Name: OSAGE 33 COM
Csg. Size: 4½ / Wt.: 10.5 / d: / Set At: TD		Perforations: From 3951 To 3994			Well No.: 1
Tbg. Size: 2-3/8 / Wt.: / d: / Set At: 3835		Perforations: From OPEN To ENDED			Unit: B / Sec.: 33 / Twp.: 6S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: NONE			County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F:	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: NEW MEXICO
L:	H:	Gg: .65	% CO_2:	% N_2:	% H_2S:
Prover:	Meter Run: 2	Taps: 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							417		420		
1.	2	x	1.375	125	3	55	398		415		1 hr.
2.	2	x	1.375	130	12	55	362		380		"
3.	2	x	1.375	130	20	60	323		345		"
4.	2	x	1.375	140	37	60	255		285		"
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	10.2	20.288	137.2	1.009	1.2403	1.0153	263
2.	10.2	41.145	143.2	1.009	1.2403	1.0127	536
3.	10.2	53.516	143.2	1.000	1.2403	1.0102	684
4.	10.2	75.288	153.2	1.000	1.2403	1.0076	960
5.							

NO.	P_t	Temp. °R	T_t	Z
1.				
2.				
3.				
4.				
5				

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

P_c 469.2 P_c^2 220

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		451.2	203.6	16.6
2		416.2	173.2	46.9
3		380.2	144.6	75.6
4		313.2	98.1	122.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.61$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1546$

Absolute Open Flow 1546 Mcfd @ 15.025 | Angle of Slope θ 51 | Slope, n .81

Remarks: ALL BOTTOM HOLE PRESSURES DONE WITH AMERADA TYPE GAUGE.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	KELTIC SERVICES	MIKE KELLY	