NEW MEXICO OIL CONSERVATION COMMSSION

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: 11-24-79	
Company: H. L. BROWN, JR.		Connection: Transwestern Pipeline			Unit
Pool: Bluitt		Formation: Wolfcamp			Part
Completion Date: 10/31/79	Total Depth: 8,915		P.B. Depth: 8,316	Elev. (DF, RT, GR, Etc.): 4051.6	Farm or Lease Name: Federal "J"
Csg. Size: 4 1/2"	Wt.: 10.5&11.5	d:	Set At: 8458	Perforations: From 3051 To 8093	Well No.: 1
Tbg. Size: 2 3/8"	Wt.:	d:	Set At: 8107	Perforations: From Open To End	Unit: L Sec.: 10 Twp.: 8-S Rge.: 37-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 7692		County: Roosevelt
Producing Thru: Tubing	Reservoir Temp. °F: 148 @ 8072'		Mean Annual Temp. °F: 70	Baro Press. – P_a: 13.2	State: New Mexico
L	H	Gg: .600	% 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	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	2	x	1	1955			1955		Pkr		
1.				1840		62	1840	62			60 min
2.				1700		56	1700	56			60 min
3.				1570		58	1570	58			60 min
4.				1540		62	1540	62			60 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	10/64" .5264		1853.2	.9981	1		973
2	12/64" .7615		1713.2	1.0039	1		1310
3	14/64"1.0415		1583.2	1.0019	1		1490
4	16/64"1.3650		1553.2	.9981	1		2116
5							

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

Gas Liquid Hydrocarbon Ratio: None Mcf/bbl.
A.P.I. Gravity of Liquid Hycrocarbons: Deg.
Specific Gravity Separator Gas: 0.600 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: P.S.I.A. P.S.I.A.
Critical Temperature: R R

P_c 2587.2 P_c^2 6694

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2573.2	6621	73
2		2537.2	6437	257
3		2476.2	6132	562
4		2349.2	5519	1175
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 91.7$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 9.57$

*

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 9317$

Absolute Open Flow: 9.317 Mcfd @ 15.025 Angle of Slope θ: 63.5 Slope, n: 150

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Conrad Dorsey	Conrad Dorsey	Jan Davidson