STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Revised 10-1-78

c/SF File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: RECEIVED 2/15/90		
Company: Hondo Drilling ✓		Connection: El Paso MAR - 1 '90			
Pool: Wildcat Strawn		Formation: Strawn O. C. D.			Unit
Completion Date: 2/12/90	Total Depth: 11311	Plug Back TD: 10810	Elevation: ARTESIA, OFFICE 3421 G.L.		Farm or Lease Name: Alscott Fed. Com
Csg. Size: 5.500 / Wt.: 17.0 / d: 4.892 / Set At: 11311		Perforations: From 10170 To 10232			Well No.: 1
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 10098		Perforations: From 0 To 0			Unit: G / Sec: 31 / Twp: 18S / Rge: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas		Packer Set At: 10098			County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 160 @ 10201	Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2		State: N.M.

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10201	10201	.712	1.39	1.06	.00	.0	4.0	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					2900	60			72.0
1.	4.00 x 1.250	534	1.1	68	2650	60	0	0	1.0
2.	4.00 x 1.250	549	3.6	68	2500	60	0	0	1.0
3.	4.00 x 1.250	549	11.0	68	2350	60	0	0	1.0
4.	4.00 x 1.250	549	18.6	68	1975	60	0	0	1.0
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	7.47	24.82	547.6	.9924	1.1851	1.0631	232
2.	7.47	45.28	562.5	.9924	1.1851	1.0650	424
3	7.47	78.82	562.5	.9924	1.1851	1.0650	738
4.	7.47	102.30	562.5	.9924	1.1851	1.0650	957
5.							

NO.	P_t	Temp. °R	T_f	Z
1	.82	528	1.36	.885
2.	.84	528	1.36	.882
3.	.84	528	1.36	.882
4.	.84	528	1.36	.882
5				

Gas Liquid Hydrocarbon Ratio .0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 39.0 Deg.
Specific Gravity Separator Gas .712 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .712
Critical Pressure 671. P.S.I.A. 671. P.S.I.A.
Critical Temperature 388. R 388. R

P_c 2913.2 P_c^2 8487.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	7093.	2666.	7108.	1378.
2	6316.	2517.	6334.	2153.
3	5585.	2369.	5613.	2874.
4	3953.	1996.	3985.	4501.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8854$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.8854$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1805$

Absolute Open Flow 1805 Mcfd @ 15.025 Angle of Slope θ 45.0 Slope, n 1.000

Remarks: 1st rate 3/64 2nd rate 6/64
3rd rate 8.5/64 4th rate 11/64

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Bennett & Cathey	Monty Randolph	