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: 1/26/77	
Company: Southern Union Production Co.	Connection: El Paso Natural Gas Company			
Pool: Aztec	Formation: Pictured Cliffs		Unit:	
Completion Date: 1-5-77	Total Depth: 5426	Plug Back TD: 5400	Elevation: 6339 GR	Farm or Lease Name: Helms Federal
Csg. Size: 7.000 / 4.500 — Wt.: 23.00 / 10.50 — d: 6.366 / 4.052 — Set At: 3151 / 5426		Perforations: From 2976 To 2997		Well No.: 1-A
Tbg. Size: 1.660 — Wt.: 2.33 — d: 1.380 — Set At: 2990		Perforations: From 2957 To 2990		Unit: C — Sec.: 22 — Twp.: 30N — Rge.: 10W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual - Gas - Gas		Packer Set At: 4570		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a: 12	State: New Mexico
L: 2946	H:	Gg: 0.620	% 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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	2"	3/4"				887		887		15 Days
1.						28	52°	139		3 Hours
2.										
3.										
4.										
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	12.3650		40	1.0078	0.9837	1.000	490
2.							
3.							
4.							
5.							

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

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

P_c 899 P_c^2 808,201

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		151	22,801	785,400
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0290$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0246$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 502$

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JAN 28 1977
OIL CON. COM.
DIST. 3

Absolute Open Flow 502 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n 0.85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	John C. Rector	Kenneth E. Roddy	