NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 9-1-65

RECEIVED
OCT 14 1970
OIL CON. COM.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10/12/70	
Company: SOUTHERN UNION PROD. CO.			Connection: EL PASO NATURAL GAS COMPANY		Unit
Pool: OTERO			Formation: GALLUP		
Completion Date: 9/22/70	Total Depth: 6925		Plug Back TD: 6897	Elevation: 6577	Farm or Lease Name: JICARILLA "L"
Csg. Size: 5.500 / Wt.: 15.50 / d: 4.950 / Set At: 6924			Perforations: From 5692 To 5906		Well No.: 4
Tbg. Size: 2.0625 / Wt.: 3.25 / d: 1.750 / Set At: 5782			Perforations: From 5774 To 5782		Unit: G / Sec.: 9 / Twp.: 24N / Rge.: 5W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: DUAL - GAS - OIL			Packer Set At: 6595		County: RIO ARRIBA
Producing Thru: TUBING	Reservoir Temp. °F: @	Mean Annual Temp. °F	Baro. Press. – P_a: 12		State: NEW MEXICO
L: 5764	H	Gg: 0.700	% 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"	3/4"				795		1156		7 DAYS
1.						78	61°	386		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		90	0.9990	0.9258	1.000	1,029
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 1168 P_c^2 1,364,224

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		398	158,404	1,205,820
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.1314

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.0969

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1,129

Absolute Open Flow 1,129 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	KENNETH E. RODDY	KENNETH E. RODDY	KENNETH E. RODDY