NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: XX Initial ☐ Annual ☐ Special			Test Date: 1/3/68	
Company: SOUTHERN UNION PRODUCTION CO.	Connection: EL PASO NATURAL GAS COMPANY			
Pool: BASIN	Formation: DAKOTA			Unit:
Completion Date: 12/19/67	Total Depth: 6693 FT.	Plug Back TD: 6672 FT.	Elevation: 6369 FT.	Farm or Lease Name: NEWSOM
Csg. Size: 4.500 / Wt.: 10.50 / d: 4.052 / Set At: 6690	Perforations: From 6424 To 6636			Well No.: 19
Tbg. Size: 1.900 / Wt.: 2.90 / d: 1.610 / Set At: 6590	Perforations: From 6582 To 6590			Unit: L / Sec.: 29 / Twp.: 26N / Rge.: 8W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE - GAS	Packer Set At:			County: SAN JUAN
Producing Thru: TUBING	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a: 12	State: NEW MEXICO
L: 6572	H:	Gg: .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"				1939		1913		11 DAYS
1.						332	65°	1186		3 HRS.
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		344	.9952	.9258	1.040	4,076
2.							
3.							
4.							
5.							

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

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OIL CON. COM.
DIST. 3

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 1951 P_c^2 3,806,401

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	118,336	1198	1,435,204	2,371,197
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6053$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4261$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5,813$

Absolute Open Flow 5,813 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: WITNESSED BY DON NORTON WITH EL PASO NATURAL GAS COMPANY

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