NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test: ☐ Initial ☐ Annual ☐ Special — Test Date: 11-30-80

Company: Petro Lewis Corporation — Connection: El Paso Natural Gas Co.

Pool: So. Blanco — Formation: Pictured Cliff — Unit:

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
11-18-81	3175	3080	7365 GL	PLC-Duff Federal "B"-19

Csg. Size	Wt.	d	Set At	Perforations	Well No.
4.500	10.5	4.052	3175	From 2915 To 2985	2

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
1.900	29#	1.610	2586	From open To ended	M	19	23	1

Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single — Packer Set At: None — County: Sandoval

Producing Thru: Tubing — Reservoir Temp. °F: — — Mean Annual Temp. °F: — — Baro. Press. – P_a: 12 — State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.650						

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	12 days						701		734		
1.	2 inch	X	.750	21			21	50°	188		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		33	1.0098	.9608	1.008	399
2.							
3.							
4.							
5.							

NO.	P_t	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 _____

Critical Pressure _____ P.S.I.A.

Critical Temperature _____ R

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DEC 8 - 1981
OIL CON. COM.
DIST. 3

P_c 746 P_c^2 556516

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		200	40000	516516
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.07744$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.06545$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 425$

Absolute Open Flow 425 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Joe Elledge	Joe Elledge	Lynn Hatley