

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-21-81	
Company SUPRON ENERGY CORPORATION				Connection El Paso Natural Gas Company		
Pool Basin				Formation Dakota		Unit
Completion Date 8-6-81		Total Depth 7525		Plug Back TD 7449		Elevation 6288
Farm or Lease Name Helms Federal						Well No. 1-E
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 7525	Perforations: From 7247 To 7369		Unit Sec. Twp. Rge. D 22 30N 10W
Tq. Size 2.375	Wt. 4.70	d 1.995	Set At 7320	Perforations: NO PERFORATIONS From To		Unit Sec. Twp. Rge. D 22 30N 10W
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At ----		County San Juan
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		State New Mexico
L 7310	H	Gg 0.700	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI	2"		3/4"				2085		2085		7 days
1.							193	69°	675		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		205	0.9915	0.9258	1.022	2378
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	2097	687	4,397,409	471,969	3,925,440	1.1202	1.0888
2							
3							
4							
5							

Absolute Open Flow 2589 Mcfd @ 15.025				Angle of Slope @		Slope, n 0.75	
Remarks:							

Approved By Division	Conducted By: Bennie Brown	Calculated By: Kenneth E. Roddy	Checked By:
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