

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

SF file
c-122 file

Type Test ☒ Initial		☐ Annual		☐ Special		Test Date 5-11-82		JUN 24 1982	
Company EL PASO NATURAL GAS COMPANY				Connection None				O. C. D.	
Pool Ross Draw - <i>Wolfcamp</i>				Formation Wolfcamp Detrital				Unit ARTESIA, OFFICE	
Comp. Test Date 5-11-82		Total Length 12,819		Plug Back TD 12,774		Elevation		Farm or Lease Name El Paso Fed. 25	
Coq. Size 4 1/2	Wt. 12.7	d 3.958	Set At 12,819	Perforations: From 12,266 To 12,302		Well No. 1		Unit Sec. Twp. Rys. M 23 26 30	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11,366	Perforations: From To		County Eddy		State New Mexico	
Type - Single - Blindhead - G.C. or G.O. Multiple Single						Packer Set At 11,366		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 200 @ 12,000		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico	
L *12,000	H *12,000	C _g .617	% CO ₂ .38	% N ₂ .41	% H ₂ S .0	Prover	Kieter Run 4"	Taps Flg.	

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							8035		PKR		72 hrs.
1.	4 X 1.000			517	4.00	109	7835		"		1 hr.
2.	4 X 1.000			523	9.00	103	7570		"		1 hr.
3.	4 X 1.000			532	29.00	83	6555		"		1 hr.
4.	4 X 1.000			537	52.00	89	5130		"		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.753	46.05	530.2	.9560	1.273	1.032	275
2.	4.753	69.47	536.2	.9610	1.273	1.033	417
3.	4.753	125.74	545.2	.9786	1.273	1.043	777
4.	4.753	169.15	550.2	.9732	1.273	1.044	1,040
5.							

NO.	$\bar{r}_e$	Temp. °R	$\bar{r}_w$	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1	.79	569	1.57	.939	Specific Gravity Separator Gas .617	XXXXXX
2.	.80	563	1.56	.938	Specific Gravity Flowing Fluid XXXXX	
3.	.81	543	1.50	.919	Critical Pressure 671	P.S.I.A.
4.	.82	549	1.52	.918	Critical Temperature 362	R
5.						

NO.	P_c	P_w	P_c^2	P_w^2	$P_c^2 - P_w^2$
1	8060.7	64974.9	2917.8		
2	7794.3	60751.1	7141.6		
3	6759.0	45684.1	22208.6		
4	5091.2	25920.3	41972.4		
5					

$P_c^{**} 8239.7 \quad P_c^2 67892.7$
 (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.618$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.287$
 $ACF = 0 \quad \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.338$

Absolute Open Flow 1,338 Mcfd @ 15.025 Angle of Slope 62.5 Slope, n 525

Remarks: Produced no fluid during test.
 *=Where BHP instrument was set. **=Calculated from known BHP.

Approved by Division	Conducted by: EL PASO EXPLORATION CO. Reston & McMurray	Calculated by: EL PASO EXPLORATION CO. J. B. Murray	Checked by:
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