

asf
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12-28-89				
Company STEVENS OPERATING				Connection AIR					
Pool Pecos Slope Abo				Formation ABO				Unit	
Completion Date 12-28-89		Total Depth 5595		Plug Back TD		Elevation 3668.16 ft		Farm or Lease Name O CONNELL Fed. Land	
Csg. Size 5 1/2	Wt.	d	Set At 5595	Perforations: From 4133 To 5413		Well No. FED COM 1			
Tbg. Size 2-3/8	Wt.	d	Set At 4039	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. E 15 6 26			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At		County CHAVES		
Producing Thru TUBING		Reservoir Temp. *F #		Mean Annual Temp. *F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover 2"	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							800				
1.	2	x	7/32	770		55	770				1 hr.
2.	2	x	3/16	690		55	690				"
3.	2	x	1/4	594		55	594				"
4.	2	x	3/8	410		55	410				"
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	.09375		783.2	1.0048	1.25	1.0835	100
2	.6082		703.2	1.0048	1.25	1.0748	577
3	1.087		607.2	1.0048	1.25	1.0632	881
4	2.378		423.2	1.0048	1.25	1.0428	1318
5							

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

P _c 876	P _c ² 767		
NO.	P _i ²	P _w ²	P _w ² - P _c ²
1		839	702
2		737	543
3		645	416
4		468	219
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.40$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1772$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.34$

Absolute Open Flow 1772 Mcfd @ 15.025	Angle of Slope 48.5	Slope, n .88
Remarks:		

Approved By Division	Conducted By: KELTIC SERVICES	Calculated By: MIKE KELLY	Checked By:
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STEVENS OPERATING

DEC 28, 1989

O'CONNELL FED COM #1

46 7400

72 767

LOGARITHMIC 3 X 3 CYCLES
REUFFEL & ESSER CO. MAINTENANCE

Q 48.5 $n = .88$