

45F
10/2/89

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

MAY 12 '89

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-2-89			
Company McCLELLAN OIL CORP.			Connection AIR		
Pool S. Puma & Type Abo			Formation ABO		
Completion Date 5-9-89		Total Depth 4560		Plug Back TD 4560	
		Elevation 3715.5		Farm or Lease Name J J FED Com.	
Ceq. Size 4-1/2	Wt. 16.5	Set At 4560	Perforations: From 429 To 4307		Well No. 2
Thq. Size 2-3/8	Wt.	Set At 4280	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. K 1 10 25
Type Well - Single - Br denhead - G.C. or G.O. Multiple SINGLE				Packer Set At	
Producing Thru TUBING		Reservoir Temp. °F 8		Mean Annual Temp. °F	
		Baro. Press. - P _a		State NEW MEXICO	
L	H	G _g .64	% 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.	
SI							972			
1.	2	x	1/8	950		60	950			
2.	2	x	7/32	900		60	900			1 hr.
3.	2	x	7/16	530		60	530			"
4.	2	x	1/2	450		60	450			"
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	.2648		963.2	1.000	1.25	1.099	350
2	.8393		913.2	1.000	1.25	1.091	1045
3	3.4080		543.2	1.000	1.25	1.053	2437
4	4.2790		463.2	1.000	1.25	1.047	2594
5							

NO.	P _t	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	XXXXXXX
3					Specific Gravity Flowing Fluid	XXXXX
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

NO.	P _t 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	10.8	10.57	42	1.7477	1.523
2	9.8	9.56	153		
3	7.1	5.49	551		
4	6.36	4.71	629		
5					

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4000$

Absolute Open Flow 4000 Mcfd @ 15.025 Angle of Slope @ 53 Slope, n .7536

Remarks: MIST OF WATER IN FINAL TWO FLOWS

Approved By Division	Conducted By: KELTIC SERVICES	Calculated By: MIKE KELLY	Checked By:
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Post ID-2
6-9-89
comp & B14