STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

L CONSERVATION DIVISIO.
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

dsf
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 2-22-91	
Company: McCLELLAN OIL		Connection: AIR			
Pool: S. Peon Slope Abo		Formation: ABO		Unit:	
Completion Date: 2-11-91	Total Depth: 4575		Plug Back TD: 4500	Elevation:	Farm or Lease Name: ALLEN FED
Csg. Size: 4-1/2 / Wt.: 4.7 / d: 1.99 / Set At: 4300			Perforations: From OPEN To ENDED		Well No.: 1
Tbg. Size: 2-3/8 / Wt.: / d: / Set At: TD			Perforations: From 4362 To 4377		Unit: D / Sec.: 7 / Twp.: 10S / Rge.: 26E
Type Well – Single – Bradenhead – G.C. or G.O. Multiple: SINGLE			Packer Set At: NONE		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F:	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: NM
L: 4369	H: 4369	Gg: .63	% CO_2:	% N_2:	% H_2S:
Prover: 6"	Meter Run:	Taps:			

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							975		1000		
1.	2	x	7/32	860			860		900		1 hr
2.	2	x	5/16	700			700		750		"
3.	2	x	7/16	460			460		600		"
4.	2	x	5/8	250			250		500		"
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	.8348		873.2	1.000	1.2599	1.0869	1004
2.	1.6720		713.2	1.000	1.2599	1/0690	1607
3.	3.4080		473.2	1.000	1.2599	1.0450	2123
4.	6.473		263.2	1.000	1.2599	1.0240	2198
5.							

NO.	P_r	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 XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1089 P_c^2 1186

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		970	940	245
2		808	652	533
3		638	407	778
4		529	280	906
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.31$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.18$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2600$

Absolute Open Flow 2600 Mcfd @ 15.025 | Angle of Slope θ 58 | Slope, n .618

Remarks:

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