SF File – 122

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

NOV 26 1979

O. C. C.

ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11-9-79	
Company: Tenneco Oil Company		Connection: None			
Pool: ~~Undesignated~~ Wildcat (Atoka)		Formation: Atoka		Unit: N/A	
Completion Date: ~~Temp. SI~~ 11-9-79	Total Depth: 11961	Plug Back TD: ~~11421~~ 11214	Elevation: 3377'GR, 3397'RKB	Farm or Lease Name: State HL 11	
Csg. Size: 5½"	Wt.: 15.5# / 17.0#	d: 4.825# / 4.767#	Set At: 11464	Perforations: From 10800 To 10814	Well No.: 1
Tbg. Size: 27/8"	Wt.: 6.5#/ft.	d: 2.441#	Set At: 10724'	Perforations: From To	Unit: N; Sec.: 11; Twp.: 19S; Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10730		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: a	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10807	--	0.7659	0.252	6.34	0.00	Pos. choke	X	F

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		3750			3750		Packer		69 hrs
1.	6.00" x 8/64"	3590		62°	3590	62°	"		30 min
2.	6.00" x 10/64"	3560		63°	3560	63°	"		30 min
3.	6.00" x 12/64"	3265		62°	3265	62°	"		30 min
4.	6.00" x 14/64"	3048		65°	3048	65°	"		1 hr
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	0.2618		3603.2	0.9980	1.140	1.146	1230
2	0.4173		3573.2	0.9971	1.140	1.138	1929
3	0.6101		3278.2	0.9980	1.140	1.166	2653
4.	0.8419		3061.2	0.9952	1.140	1.178	3444
5.							

NO.	P_t	Temp. °R	T_t	Z
1	5.468	522	1.348	0.774
2.	5.341	523	1.355	0.772
3.	4.900	522	1.352	0.736
4.	4.576	525	1.360	0.721
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons: Dry Gas Deg.

Specific Gravity Separator Gas: 0.7659 XXXXXXXXXX

Specific Gravity Flowing Fluid: XXXXX

Critical Pressure: P.S.I.A. P.S.I.A.

Critical Temperature: R R

P_c 4944 P_c^2 24443

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4775	22801	1642
2		4734	22411	2032
3		4522	20448	3995
4		4141	17148	7295
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 14.886$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.932$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4836$

Absolute Open Flow: 4836 Mcfd @ 15.025 Angle of Slope θ: 63.1° Slope, n: 0.507

Remarks: Used element No. 18449 for test and it was set at 10,700'

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	John West Engineering	Mark Jacoby	