MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

C-122

RECEIVED
MAY - 3 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial FOUR POINT [ ] Annual [ ] Special — Test Date: 4-20-82

Company: ~~JACK GRYNBERG & ASSOCIATES~~ Viking Pet — Connection: AIR NEW WELL

Unit: P

Pool: ~~UNDESIGNATED~~ Pecos Slope Abo — Formation: ABO

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
4-22-82	4150	4076	3988 KB	GRYNBERG 16 STATE

Csg. Size	Wt.	d	Set At	Perforations	Well No.
4.5	10.5	4.052	4150	From 3592 To 3763	1

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
2.375	4.7	1.995	3536	From OPEN To ENDED	P	16	5S	24E

Type well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
SINGLE	NONE	CHAVES

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
TIBING	100 @ 3681	60°	13.2	NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3681	3681	.686	2.08	10.14		2.00		

FLOW DATA / TUBING DATA / B.H.P. DATA

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.	CHOKE	Duration of Flow
SI						62	877		974		117 HRS.
1	2.00	X	.09375	853	0	59	856		953	9/64	1
2	2.00	X	.1875	400	0	48	811		904	10/64	1
3	2.00	X	.1875	640	0	51	735		819	11/64	1
4	2.00	X	.21875	490	0	51	543		679	13/64	1
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	.1410	.00	866.2	1.001	1.207	1.079	159
2	.6082	.00	413.2	1.012	1.207	1.041	319
3	.6082	.00	653.2	1.009	1.207	1.063	514
4	.8393	.00	503.2	1.009	1.207	1.048	539
5							

NO	P_t	Temp. °R	T_r	Z
1	1.31	519	1.45	.859
2	.63	508	1.42	.923
3	.99	511	1.43	.885
4	.76	511	1.43	.911
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.

Specific Gravity Separator Gas .686 — XXXXXXXXXX

Specific Gravity Flowing Fluid XXXXX

Critical Pressure 660 P.S.I.A. — _____ P.S.I.A.

Critical Temperature 357 R — _____ R

P_c 801.7 P_c^2 795.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		879.2	762.0	33.2
2		828.9	686.8	108.4
3		752.9	566.8	228.4
4		627.4	393.6	401.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.4816$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.1342$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,097.0$

Absolute Open Flow 1,097.0 Mcfd @ 15.025 — Angle of Slope θ 58.5 — Slope, n .613

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMNTS. CORRECTED ON N.M. FORM C122F

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	RICHARD TOWNLEY	BENNETT-CATHEY	