MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED JUN 4 1982 O. C. D. ARTESIA, OFFICE

Type Test: [X] Initial FOUR POINT [ ] Annual [ ] Special | Test Date: 5-17-82 | 660 FNL

Company: JACK GRYNBERG & ASSOCIATES | Connection: AIR NEW WELL | 660 FEL

Pool: ~~UNDESIGNATED~~ Penasco Slope ato | Formation: ABO | Unit: A

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
5/17/82	4041	3,740	4,129 KB	HOBBS-CANYON 7-D

O.D. Size	Wt.	d	Set At	Perforations	Well No.
4.5	10.5	4.052	3740	From 3673 To 3686	4
Tbg. Size	**Wt.**	**d**	**Set At**	**Perforations**	**Unit / Sec. / Twp. / R**
2.375	4.7	1.995	3685	From OPEN To ENDED	A / 12 / 6S / 24

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

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
TUBING	99 @ 3680	60°	13.2	NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3680	3680	0.6947	4.846	7.403		2.00		

	FLOW DATA					TUBING DATA		B.H.P. 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.	CHOKE	
SI						814		898		72 HR
1	2.00	X .09375	497	00	78	805	81	891	4/64	1
2	2.00	X .21875	500	00	74	757	83	845	11/64	1
3	2.00	X .3125	400	00	75	690	84	774	20/64	1
4	2.00	X .375	380	00	72	595	80	678	22/64	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	.1446	.00	510.2	.9831	1.1995	1.0398	90
2	.8608	.00	513.2	.88687	1.1995	1.0414	545
3	1.7140	.00	413.2	.9859	1.1995	1.0331	865
4	2.4390	.00	393.2	.9887	1.1995	1.0325	1174
5							

NO	P_t	Temp. °R	T_r	Z
1	.75	538	1.50	.925
2	.76	534	1.49	.922
3	.61	535	1.49	.937
4	.58	532	1.48	.939
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl

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

Specific Gravity Separator Gas .6950 XXXXXXXX

Specific Gravity Flowing Fluid XXXXX

Critical Pressure 677 P.S.I.A. _____ P.S.I.A.

Critical Temperature 359 °R _____

P_c 911.2 P_c^2 830.3

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		904.2	817.6	13.0
2		858.2	736.5	94.0
3		787.2	619.7	211.0
4		691.2	477.8	353.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3521$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6411$

Posted FD 6-11-82 comp + BK

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,926.7$

Absolute Open Flow 1,926.7 Mcfd @ 15.025 | Angle of Slope θ 59.9 | Slope, n .579

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

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