

MULTIPLE POINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form G-144
Revised 9-1-65

RECEIVED BY

FEB 21 1985

4 POINT ☒ Initial☐ Annual☐ Special

Test Date

12-11-84

Company
O. D.
ROBERT ENFIELD
ARTESIA OFFICE

Connection

TO AIR

Formation

CISCO

Unit

J

Completion Date
12-9-84

Total Depth

10,070.

Plug Back To

9575. - 1780

Elevation

3288.

Farm or Lease Name

DOUGLAS

Pkg. Size

5.700

Wt.

17.0

d

4.892

Set At

10,070.

Perforations:

From 7864.

To 7875.

Well No.

1

Pkg. Size

2.375

Wt.

4.7

d

1.995

Set At

7,809

Perforations:

From 0.

To 0.

Unit

J

Sec.

7

Twp.

19S

Rge.

27E

Type Well - Single - Horizontal - G.G. or G.O. Multiple

SINGLE

Packer Set At

7806.

County

EDDY

Producing thru

TUBING

Reservoir Temp. °F

176.0 7870.

Mean Annual Temp. °F

60.0

Baro. Press. - P_a

13.2

State

NEW MEXICO

L

7870.

H

7870.

G_g

0.679

% CO₂

0.07

% N₂

1.07

% H₂S

0.00

Proven

0.

Motor Run

4.0

Type

FLANGE

FLOW DATA

TUBING DATA

B.H.P. DATA

NO	Proven 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
1	4.03 X 2.250			200.	7.0	72.	2290.		3072.		72.0
2	4.03 X 2.250			210.	13.5	72.	2280.		3032.	12/64	1.0
3	4.03 X 2.250			220.	25.0	75.	1910.		2964.	19/64	1.0
4	4.03 X 2.250			260.	43.0	74.	1785.		2927.	23/64	1.0
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 _{sp}	Rate of Flow Q, Mcfd
1	25.64	38.63	213.2	0.9887	1.2136	1.0211	1214.
2	25.64	54.89	223.2	0.9887	1.2136	1.0222	1726.
3	25.64	77.87	233.2	0.9859	1.2136	1.0229	2444.
4	25.64	108.39	273.2	0.9868	1.2136	1.0271	3419.
5							

NO	P _h	Temp. °F	T _g	Z	Gas Liquid Hydrocarbon Ratio	Mc/Std.
1	0.32	532.	1.40	0.959	25.7	
2	0.33	532.	1.40	0.957	A.P.L. Gravity of Liquid Hydrocarbon	65.0
3	0.35	535.	1.41	0.956	Specific Gravity Separator Gas	0.679
4	0.41	534.	1.40	0.948	Specific Gravity Flowing Fluid	0.774
5					Critical Pressure	667.
					Critical Temperature	380.

NO	P _h	P _w	P _h ²	P _w ²	P _h ² - P _w ²	(1) $\frac{P_c^2}{P_h^2 - P_w^2} = 10.3145$	(2) $\left[\frac{P_c^2}{P_h^2 - P_w^2} \right]^n = 7.0841$
1	9273.	2308.	5328.	150.			
2	9158.	2293.	5258.	220.			
3	8864.	2254.	5079.	398.			
4	8645.	2224.	4947.	531.			
5							

Absolute Open Flow	24220.	Mcf @ 15.025	Angle of Slope @	50.0	Slope, n	.839
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Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission	Conducted By	Calculated By	Checked By
	RICK HATCHETT	BENNETT & CATHEY INC.	

Post ID-2
3-1-85
Camp Penn