

RECEIVED BY

APR -9 1985

ARTESIAN

Type of Test
4-POINT ☒ Initial☐ Annual☐ SpecialTest Date
1-21-85Company
SANTA FE ENERGY

Connection

TO AIR

Pool

Formation

STRAWN

Unit

Completion Date

1-16-85

Total Depth

12242

Plug Back

11854

Elevation

3096

Farm or Lease Name

HENRY

Pipe Size

5.500

Wt.

17.0

d

4.892

Set At

12242

Perforations:

From 10374

To 10540

Well No.

#1

Pipe Size

2.375

Wt.

4.7

d

1.995

Set At

10291

Perforations:

From 0

To 0

Unit

26

Sec.

22S

Twp.

27E

Rgs.

27E

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

SINGLE

Packer Set At

10293

County

EDDY

Producing thru

TUBING

Reservoir Temp. °F

220 10457

Mean Annual Temp. °F

60.0

Baro. Press. - P_a

13.2

State

NEW MEXICO

L

10457

H

10457

Gg

0.632

% CO₂

0.57

% N₂

0.68

% H₂S

0

Prover

0

Motor Run

4.0

Type

FLANGE

FLOW DATA

TUBING DATA

B.H.P. DATA

Duration

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	CHOKE	Duration of Flow
1	4.03 X 2.500			605.	5.5	100.	4257.	0.	5529.	12/64	1.0
2	4.03 X 2.500			605.	14.0	79.	4193.	0.	5520.	24/64	1.0
3	4.03 X 2.500			620.	35.5	46.	3998.	0.	5503.	20/64	1.0
4	4.03 X 2.500			620.	70.0	30.	3640.	0.	5488.	28/64	1.0
5											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	32.64	58.31	618.2	0.9636	1.2579	1.0449	2410.
2	32.64	93.03	618.2	0.9822	1.2579	1.0522	3947.
3	32.64	149.93	633.2	1.0137	1.2579	1.0683	6666.
4	32.64	210.53	633.2	1.0302	1.2579	1.0780	9598.
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.92	560.	1.53	0.916	51.7	59.0	0.632	XXXXXX	672.	366.
2	0.92	539.	1.47	0.903				XXXXXX	670.	382.
3	0.94	506.	1.38	0.876						
4	0.94	490.	1.34	0.861						
5										

NO.	P _f	P _w	P _f ²	P _w ²	(1) $\frac{P_c^2}{P_f^2 - P_w^2} = 50.7342$	(2) $\left[\frac{P_c^2}{P_f^2 - P_w^2} \right]^n = 27.8221$
1	30716.	4384.	19217.	62.		
2	30616.	4376.	19147.	132.		
3	30428.	4361.	19015.	264.		
4	30263.	4347.	18899.	380.		
5						

Absolute Open Flow	267036.	Mcfd @ 15.025	Angle of Slope @	49.75	Slope, n =	.847
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Approved by Commission	Conducted by	Calculated by	Checked by
	RICHARD TOWNLEY	BENNETT AND CATHEY INC.	

Form
Revised 9-1-86Post ID-2
5-17-85
Comp & BK