

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Rev. and 9-1-65

Type Test

☒ Initial

☐ Annual

☐ Special

Test Date

6/25/84

Company

Union Texas Petroleum Corp.

Connection

El Paso Natural Gas Company

Pool

Basin

Formation

Dakota

Unit

Completion Date

1/27/84

Total Depth

7225

Plug Back TD

7172

Elevation

6312

Farm or Lease Name

State Com

Chg. Size

See Remarks

Wt.

d

Set At

Perforations:

From 6936 To 7167

Well No.

1-F

Thg. Size

2.375

Wt.

4.70

d

1.995

Set At

6971

Perforations:

Open-ended

Unit

0

Sec.

16

Twp.

28N

Rge.

9W

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

Dual - Gas - Gas

Packer Set At

5224

County

San Juan

Producing Thru

Tubing

Reservoir Temp. °F

Mean Annual Temp. °F

Baro. Press. - P_a

12

State

New Mexico

L

6959

H

G_g

0.700

% CO₂

% N₂

% H₂S

Prover

Meter Run

Taps

FLOW DATA

TUBING DATA

CASING 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.

Temp. °F

Duration of Flow

SI

2"

3/4"

1423

7 days

1.

97

68°

3 hours

2.

3.

4.

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_{pv}

Rate of Flow Q, Mcfd

1

12.3650

109

0.9924

0.9258

1.012

1253

2.

3.

4.

5.

NO.

P_r

Temp. °R

T_r

Z

Gas Liquid Hydrocarbon Ratio Mcf/bbl.

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

Specific Gravity Separator Gas XXXXXXXXXX

Specific Gravity Flowing Fluid XXXXX

Critical Pressure P.S.I.A.

Critical Temperature R

1.

2.

3.

4.

5.

P_c 1435 P_c² 2,059,225

NO.

P_r²

P_w

P_w²

P_c² - P_w²

1

53,933

2,005,292

2

3

4

5

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0269$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0201$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1278$

Absolute Open Flow 1278 Mcfd @ 15.025

Angle of Slope θ

Slope, n 0.75

Remarks: 9.625 40.00 8.835 4160

7.000 23.00 6.366 3330 - 6539

4.500 11.60 4.000 6417 - 7224

Approved by Commission

Conducted by: Bruce Voiles

Calculated by: Ken Roddy

Checked by: