

RECEIVED BY

JAN 11 1985

O. C. D.

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65clsf.
File

Type Test, Office

☒ Initial☐ Annual☐ Special

Test Date

1-3-85

Company

Hondo Oil & Gas Company ✓

Connection

None

Pool

South
Wildcat *Empire Atoka*

Formation

Atoka

Unit

Completion Date

12/22/84

Total Depth

10900

Plug Back TD

10400

Elevation

3672 GR

Farm or Lease Name

State CC

Csg. Size

5.5

Wt.

17

d

Set At

10900

Perforations:

From 10011 To 10018

Well No.

1

Tbg. Size

2.375

Wt.

4.7

d

1.995

Set At

9956

Perforations:

From 9959 To 9962

Unit Sec. Twp. Rye.

N 26 17S 28E

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

Single

Packer Set At

9956

County

Eddy

Producing Thru

Tbg.

Reservoir Temp. °F

154° @ 10014

Mean Annual Temp. °F

60

Baro. Press. - P_a

13.2

State

New Mexico

L

9959

H

9959

Gg

.601

% CO₂

.238

% N₂

.801

% H₂S

-

Prover

Meter Run

4"

Taps

Flg.

FLOW DATA

TUBING DATA

CASING 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.	Temp. °F	Duration of Flow
SI							3281	16	Pkr.		176 Hrs.
1.	4 x	2.750		585	3.5	89	3047	65	Pkr.		1 Hr.
2.	4 x	2.750		590	7.8	76	2830	67	Pkr.		1 Hr.
3.	4 x	2.750		625	13.0	80	2610	68	Pkr.		1 Hr.
4.	4 x	2.750		597	26.5	71	2195	69	Pkr.		1 Hr.
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	41.10	45.76	598.2	.9732	1.290	1.041	2458
2	41.10	68.59	603.2	.9850	1.290	1.047	3751
3	41.10	91.09	638.2	.9813	1.290	1.048	4966
4	41.10	127.16	610.2	.9896	1.290	1.048	6992
5.							

NO.	R _i	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	.89	549	1.55	.922	126.16	52.3	.601	X X X X X X X X	670	355
2	.90	536	1.51	.913				X X X X X		
3	.95	540	1.52	.910						
4	.91	531	1.50	.910						
5.										

*P _c 4164.2	P _c ² 17340.6									
NO.	P _i ²	* P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.804$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.885$				
1		3930.2	15446.5	1894.1						
2		3755.2	14101.5	3239.1						
3		3575.2	12782.1	4558.5						
4		3301.2	10897.9	6442.7						
5										

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14326$$

Part TD-2
2-8-86
Cary + K

Absolute Open Flow 14326 Mcfd @ 15.025 Angle of Slope 51° 35' Slope, q .793

Remarks: *BHP recorded at 10014' (Mid point of perforations)
Well produced 6 Bbls. of distillate (52.3 API) during test.

Approved By Commission: *JTC* Conducted By: J. Cogburn Calculated By: J. Cogburn Checked By: L. R. Sutton