

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

RECEIVED BY
Form C-12
Revised 9-65
JAN 15 1985
O.C.D.
ARTESIA OFFICE

4 POINT ☒ Initial ☐ Annual ☐ Special Test Date 12-21-84

Company FLORIDA EXPLORATION ✓ Connection TO AIR

Pool *Wildcat Morrow* Formation MORROW Unit

Completion Date 12-18-84 Total Depth 10750 Plug Back 10720 Elevation 4095' Form or Lease Name CHAMA COM Well No. 1

Prod. Size 4.500 Wt. 11.6 d 4.052 Set At 10750 Perforations: From 10282 To 10520

Trp. Size 2.375 Wt. 4.7 d 1.995 Set At 10146 Perforations: From To

Type Well - Single - Mordenhead - G.G. or G.O. Multiple Factor Set At 10146 County EDDY State NEW MEXICO

Producing thru TUBING Reservoir Temp. °F 204.0 10401 Main Annual Temp. °F 60.0 Entry Press. - P_a 13.2 Motor Run 4.0 Temp. FLANGE

L 10401 H 10401 G_g 0.623 % CO₂ 0.88 % N₂ 0.15 % H₂O 0. Prover 0.

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	
1.	4.03 X 2.000			170.	3.5	95.	0.	0.	3752.		72.0
2.	4.03 X 2.000			170.	7.0	77.	0.	0.	3517.	6/64	1.0
3.	4.03 X 2.000			180.	15.0	80.	0.	0.	3350.	8/64	1.0
4.	4.03 X 2.000			180.	24.0	74.	0.	0.	3023.	8/64	1.0
5.									2546.	8/64	1.0

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	19.81	25.32	183.2	0.9680	1.2669	1.0133	623.
2	19.81	35.81	183.2	0.9840	1.2669	1.0152	898.
3	19.81	53.83	193.2	0.9813	1.2669	1.0157	1347.
4	19.81	68.09	193.2	0.9868	1.2669	1.0165	1715.
5							

NO. 1 2 3 4 5

P₁ 0.27 Temp. °R 555. T₁ 1.53 Z 0.974

P₂ 0.27 537. 1.48 0.970

P₃ 0.29 540. 1.48 0.969

P₄ 0.29 534. 1.47 0.968

P₅

Gas Liquid Hydrocarbon Ratio 4.3 Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons 62.0 Deg.

Specific Gravity Separator Gas 0.623

Specific Gravity Flowing Fluid XXXXX

Critical Pressure 675. P.S.I.A.

Critical Temperature 364. °R

P₁ 2420.1 P₂ 5857.

NO.	P ₁ ²	P ₂ ²	P ₁ ² - P ₂ ²
1	12462.	2233.	4988.
2	11311.	2104.	4426.
3	9219.	1862.	3468.
4	6550.	1540.	2373.
5			

(1) $\frac{P_c^2}{P_1^2 - P_w^2} = 1.6810$

(2) $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 1.4610$

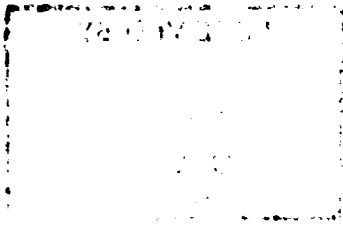
AOI = 0 $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 2505.$

Absolute Open Flow 2505. Mcfd @ 15.025 Angle of Slope 53.9 Slope, n 0.730

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

44.5 BBLS CONDENSATE AT 62 GRAVITY

Approved by Commission Conducted by RICHARD TOWNLEY Calculated by BENNETT & CATHEY INC. Checked by



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JAN 14 1985

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