

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special
 Test Date: 9-1-81
 Company: Yates Petroleum Corporation/
 Pool: Kennedy Farms (U. Penn)
 Completion Date: 8-23-81
 Total Depth: 8933 KB
 Plug Back TD: 7350 KB
 Elevation: KB
 Form or Lease Name: Blevins IK Com
 Well No.: 1
 Unit: D
 Sec.: 35
 Twp.: 17s
 Rge.: 26e

OCT 27 1981

G. C. D.
ARTESIA, OFFICE

Type Well: Single - Drillinghead - G.C. or G.O. Multiple
 Packer Set At: 7236 KB
 County: Eddy
 State: New Mexico
 Producing thru Tubing: L 7272 H 7272
 Reservoir Temp. °F: 130 # 7281
 Mean Annual Temp. °F: 62
 Baro. Press. - P_a: 13.2
 % CO₂: 1.13
 % N₂: 3.70
 % H₂S: Nil
 Prover: --
 Meter Run: 4"
 Tape: Flanged

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI											Days
1.	4.026	X	0.625	565	4	75	2085	92			18 hrs.
2.	4.026	X	0.625	490	16	73	1938	90			24
3.	4.026	X	0.625	449	36	70	1624	91			24
4.	4.026	X	0.625	435	56	70	1178	92			24
5.							505	93			

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	1.845	48.09	578.2	.9859	1.188	1.0608	110
2	1.845	89.73	503.2	.9877	1.188	1.0539	205
3	1.845	128.99	462.2	.9905	1.188	1.0505	294
4	1.845	158.43	448.2	.9905	1.188	1.0487	361
5							

NO.	R ₁	Temp. °R	T _r	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	0.860	535	1.390	0.8886	43.96	60.8	0.709	XXXXXX	672	385
2	0.749	533	1.384	0.9003				XXXXXX		
3	0.688	530	1.377	0.9062						
4	0.667	530	1.377	0.9093						
5										

NO.	P ₁ ²	P _w ²	R ₁ ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{R_1^2 - R_w^2} = 1.0588$	(2) $\left[\frac{R_1^2}{R_1^2 - R_w^2} \right]^n = 1.0380$
1			6439	961		
2			4498	2902		
3			2300	5100		
4			411	6989		
5						

Absolute Open Flow: 375 Mcfd @ 15.025
 Angle of Slope: 56.9 deg
 Slope, n: 0.6527

Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT.
 Calculations worksheet C122D attached.

Approved by Commission: _____ Conducted By: Bob Gary
 Calculated By: Eddie Mahfood
 Checked By: _____