

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

Form C-112
Revised 9-6-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-20-76		NOV 5 1976	
Company Yates Petroleum Corp.				Connection Transwestern Pipeline Co.				O. C. C.	
Pool Kennedy Farms (Atoka)				Formation				Unit ARTESIA, OFFICE	
Completion Date 7-20-75		Total Depth 8850		Plug Back TD 8327		Elevation 3331' KB		Farm or Lease Name Hnulik "EJ"	
Csg. Size 4 1/2"	Wt. 10.5 & 11.6	d	Set At	Perforations: From 8350 To 8371		Well No. 1 - Com.			
Tbg. Size 2-3/8"	Wt. 4.7	d	Set At	Perforations: From To		Unit Sec. Twp. Rge. D 26-17S-26E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - G.G. - Atoka in Annulus						Packer Set At 8327		County Eddy	
Producing Thru Csg. Annulus		Reservoir Temp. °F 135		Mean Annual Temp. °F 62		Baro. Press. - P _a 13.2		State New Mexico	
L 8385	H 8385	Cg .732	% CO ₂ 0.74	% N ₂ 1.05	% H ₂ S Nil	Prover	Meter Run 2.067	Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							1922	69		
1.	2 X	1.375		280	6	57	1639	66		
2.	2 X	1.375		280	11	56	1544	65		
3.	2 X	1.375		280	22	55	1342	65		
4.	2 X	1.375		280	41	54	1030	64		
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	10.20	41.943	293.2	1.003	1.205	1.0340	535
2	10.20	56.791	293.2	1.004	1.205	1.0342	725
3	10.20	80.314	293.2	1.005	1.205	1.0344	1026
4	10.20	109.64	293.2	1.006	1.205	1.0346	1403
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	67.390 Mcf/bbl.
1.	.437	517	1.346	.9354	A.P.I. Gravity of Liquid Hydrocarbons	56.8 Deg.
2.	.437	516	1.344	.9350	Specific Gravity Separator Gas	.689 XXXXXXXXX
3.	.437	515	1.341	.9346	Specific Gravity Flowing Fluid	XXXXXX .732
4.	.437	514	1.339	.9342	Critical Pressure	671 P.S.I.A. 670 P.S.I.A.
5.					Critical Temperature	384 R 398 R

P _c 2277.5 P _c ² 6644				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.38561$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3539$	
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²		
1			4979	1665		
2			4297	2347		
3			3211	3433		
4			1849	4795		
5						

Absolute Open Flow 1900 Mcfd @ 15.025				Angle of Slope θ 47	Slope, n 0.9289
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Remarks: Pressures by dead weight tester, form C-112 - D attached.			
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Approved By Commission:	Conducted By: Don Weaver	Calculated By: Eddie M. Mahfood	Checked By:
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