

**NEW XICO OIL CONSERVATION COMMISSIC
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5/9/77	
Company BTA OIL PRODUCERS				Connection None		
Pool Wildcat				Formation Pennsylvanian		Unit Hagood Unit
Completion Date 5-6-77		Total Depth 19,894'		Plug Back TD 16,165'		Elevation 2990' KB
Farm or Lease Name 7608 JV-P Hagood		Well No. 1				
Csg. Size 7-3/4"	Wt. 46	d 6.5	Set At 18,070	Perforations: From 13,865' To 15,847'		Unit Sec. Twp. Rge. B 25 - 26S - 35E
Tbg. Size 3-1/2"	Wt. 10.3	d 2.922	Set At 13,600	Perforations: From To		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 13,600		County Lea
Producing Thru Tubing		Reservoir Temp. °F 180		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2
State New Mexico						
L 13,600	H 14,856	G _g 0.700	% CO ₂ -	% N ₂ -	% H ₂ S -	Prover X
Meter Run F		Taps F				

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
1	4.026 x 1.500			600	16	60	2600	60	Pkr		1 hr.
2	4.026 x 1.500			600	22	60	2343	60	Pkr		1 hr.
3	4.026 x 1.500			600	24	60	1971	60	Pkr		1 hr.
4	4.026 x 1.500			600	26	60	1668	60	Prk		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	99.05	613.2	0.9813	1.195	1.067	1,343
2	10.84	116.15	613.2	0.9706	1.195	1.061	1,549
3	10.84	121.31	613.2	0.9723	1.195	1.063	1,624
4	10.84	126.26	613.2	0.9859	1.195	1.071	1,727
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	133 Mcf/bbl.
1	0.92	540	1.38	0.878	A.P.I. Gravity of Liquid Hydrocarbons	55 Deg.
2	0.92	552	1.41	0.888	Specific Gravity Separator Gas	0.7
3	0.92	550	1.40	0.885	Specific Gravity Flowing Fluid	0.722
4	0.92	535	1.36	0.871	Critical Pressure	668 P.S.I.A.
5					Critical Temperature	392 R

P _c 7789.2 P _c ² 60672				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1			6829	53843
2			5552	55120
3			3937	56734
4			2826	57846
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{60672}{57846}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.811$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.04885$

Absolute Open Flow	1.811 Mcfd @ 15.025	Angle of Slope @	45	Slope, n	1.00
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Remarks: Well produces about 340 bbls water/day. Because of large pressure draw down and erratic surface flow rates it is impossible to conduct a 4- point test.

Tested to atmosphere.

Approved By Commission:	Conducted By: O. V. Sivage	Calculated By: O. V. Sivage	Checked By:
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RECEIVED

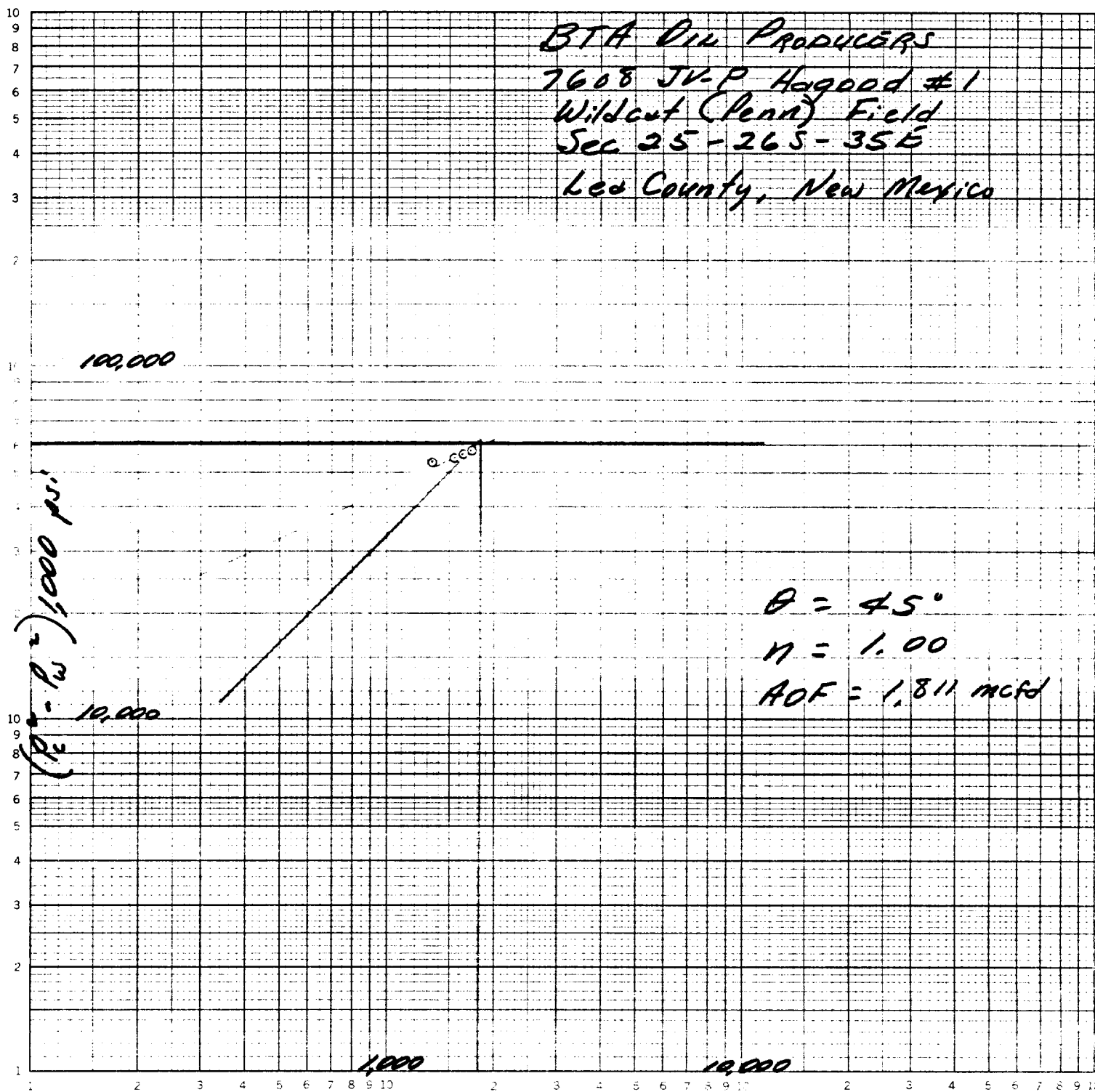
JUL 5 1977

OIL CONSERVATION COMM.
HOBBS, N. M.

46 7400

K+S LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

BTA Oil Producers
7608 JVP Haggard #1
Wildcat (Penn) Field
Sec 25-26S-35E
Lee County, New Mexico



Rate (McFD)

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