

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS MAR 18 1985

Type Test ☐ Initial ☐ Annual ☐ Special				Test Date 3-11-85		O. C. D. ARTESIA OFFICE	
Company READ & STEVENS				Connection AIR			
Pool Dos Ranchos Montoya				Formation TENN Montoya		Unit	
Completion Date 1-2-81		Total Depth 6660		Plug Back TD 6586		Elevation 3942.7' GR	
Csg. Size 4 1/2		Wt. 10.5		Set At 6660		Perforations: From 6450 To 6462	
Thq. Size 2-3/8		Wt. 6361		Set At 6361		Perforations: From OPEN To ENDED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 6371		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F #		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
L		H		G _g .65		% CO ₂	
				% N ₂		% H ₂ S	
				Prover		Meter Run 2"	
						Taps PIPE	

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.	
SI							1790		PACKER	
1.	2		.75	760	18	75	1385			1 hr.
2.	2		.75	700	35	79	1091			"
3.	2		.75	625	54	81	840			"
4.	2		.75	602	74	81	616			"
5.										

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 _{pv}	Rate of Flow Q, Mcfd
1	2.941	117.97	773.2	.9859	1.2403	1.0716	455
2	2.941	157.99	713.2	.9822	1.2403	1.0636	602
3	2.941	185.64	638.2	.9804	1.2403	1.0556	701
4	2.941	213.36	615.2	.9804	1.2403	1.0535	804
5.							

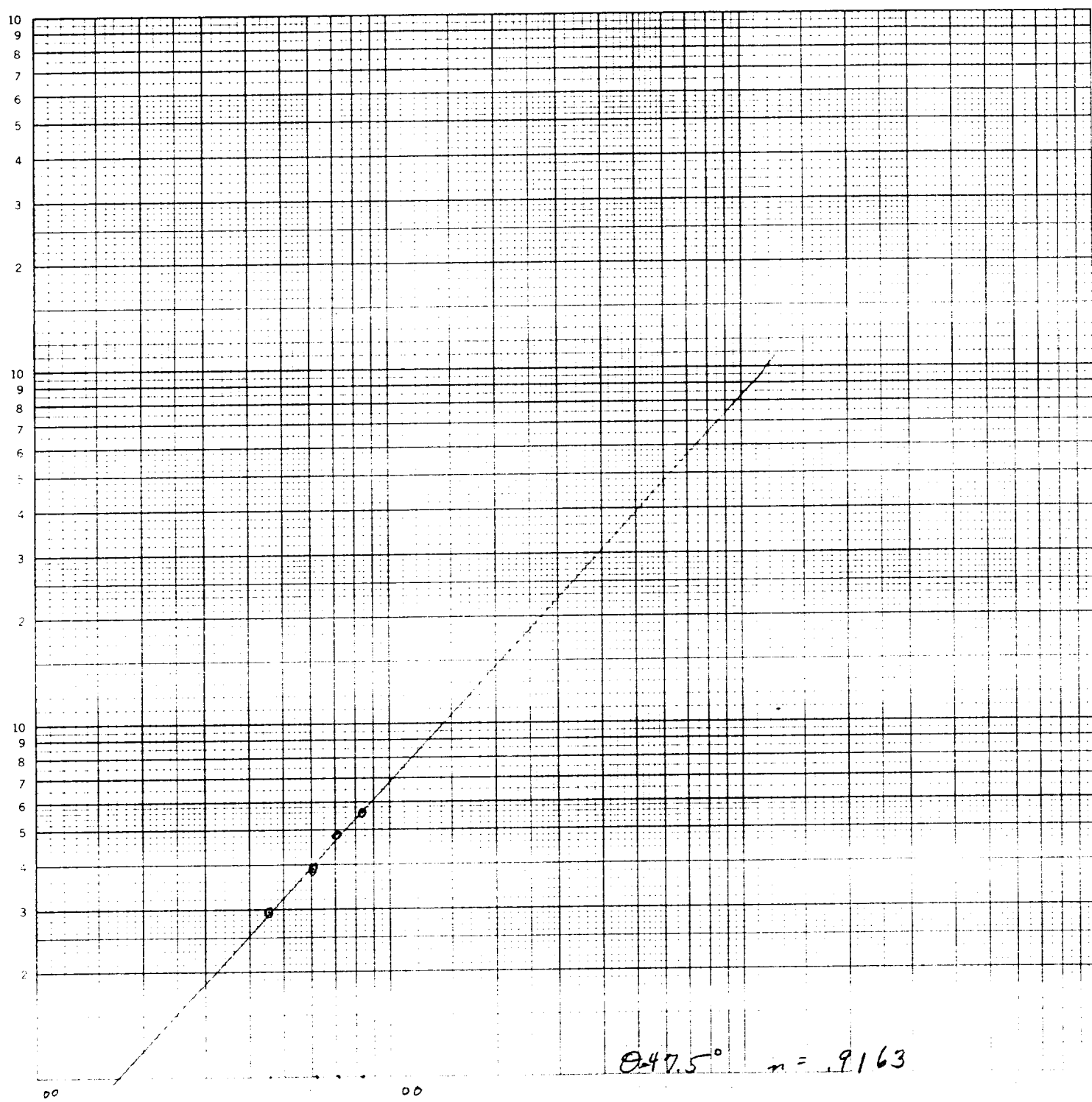
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 2609.2 P _c ² 6808					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.22$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.20$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 968$			
1		1967.2	3870	2938				
2		1721.2	2963	3845				
3		1396.2	1949	4859				
4		1117.2	1248	5560				
5								

Absolute Open Flow _____ 968 _____ Mcfd @ 15.025		Angle of Slope @ _____ 47.5 _____		Slope, n _____ 92 _____	
Remarks: BOTTOM HOLE PRESSURE RECORDED W/AMERADA TYPE GAUGE.					
4 BBLs. of CONDENSATE RECOVERED DURING TEST.					
Approved By Division		Conducted By: KELTIC SERVICES		Calculated By: KELLY	
				Checked By:	

$P^2 - P^2 \approx (0.0008) 7400$

K₄Σ LOGARITHMIC 3 X 3 CYCLES
KUFFEL & ESSER CO. MADE IN U.S.A.



$\theta = 47.5^\circ$ $n = .9163$

Q
MSCFPD

KELTIC SERVICES INC

COMPANY READ & STEVENS INC
 LEASE N HAYSTACK
 FIELD N HAYSTACK
 DEPTH 6456 FEET
 TUBING PRESSURE 1790 PSIG
 BOMB NUMBER 033

DATE 3/07-11/85
 WELL NUMBER FED # 1
 FORMATION PENN

CASING PRESSURE 0 PSIG
 OPERATOR CHUCK

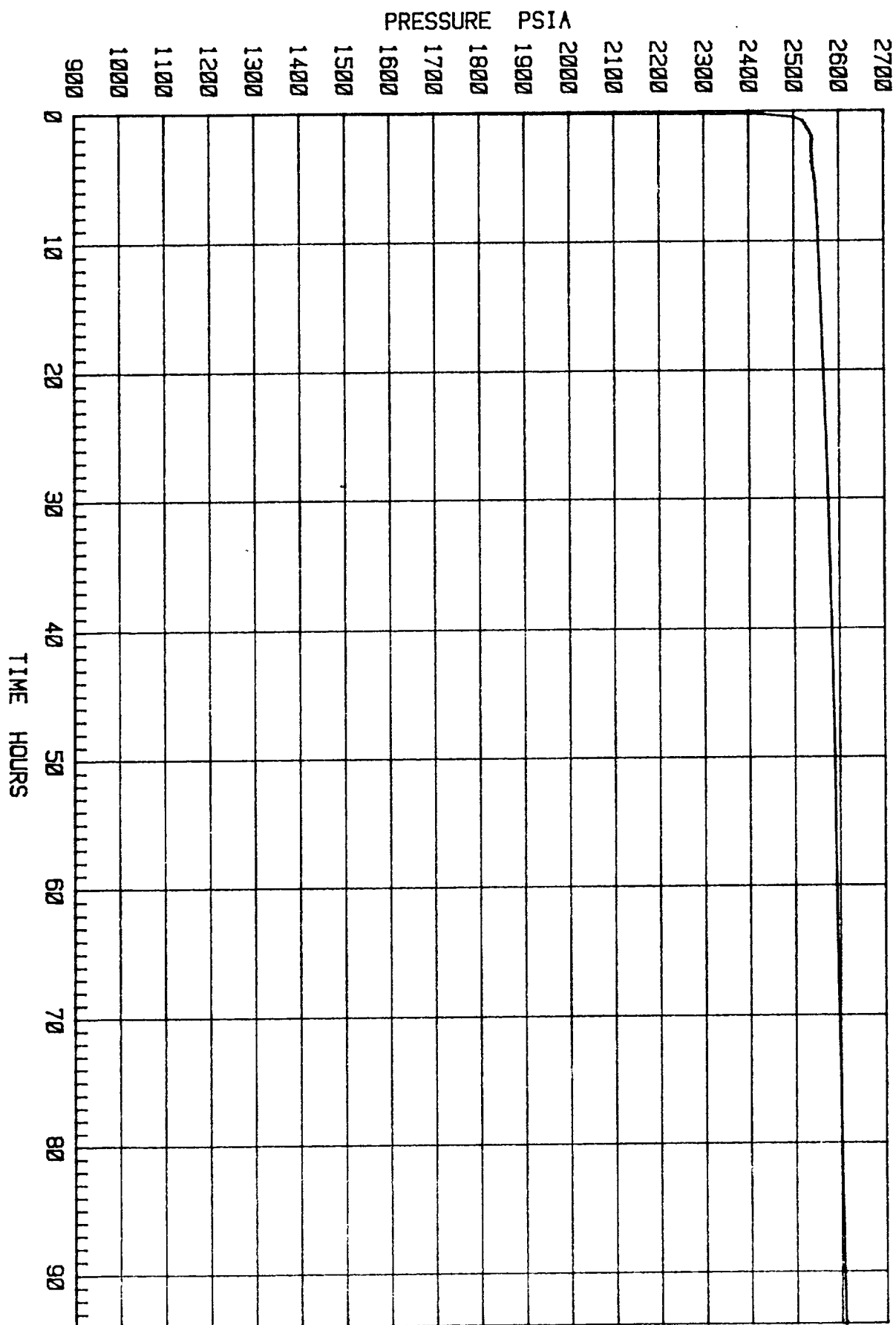
TIME	HOURS	PRESSURE	PSIA
0.00		909.20	
.25		2426.20	
.50		2500.20	
.75		2519.20	
1.00		2525.20	
1.25		2529.20	
1.50		2533.20	
1.75		2538.20	
2.00		2541.20	
2.25		2541.20	
2.50		2540.20	
2.75		2540.20	
3.00		2540.20	
3.50		2541.20	
4.00		2541.20	
4.50		2543.20	
5.00		2546.20	
6.00		2549.20	
7.00		2551.20	
8.00		2553.20	
9.00		2554.20	
10.00		2555.20	
15.00		2561.20	
20.00		2566.20	
30.00		2576.20	
40.00		2583.20	
50.00		2589.20	
60.00		2592.20	
70.00		2597.20	
80.00		2602.20	
90.00		2607.20	
94.00		2609.20	

THANK YOU

READ & STEVENS INC

N HAYSTACKED # 1

3/07-11/85



KELTIC SERVICES