

RECEIVED

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

MAR 07 1983

Form C-122
Revised 9-1-65

O. C. D.

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2/21/83		ARTESIA OFFICE	
Company SANDERS OIL & GAS ✓				Connection Air					
Pool Pecos Slope				Formation Abo				Unit	
Completion Date 1/4/83		Total Depth 4808		Plug Back TD 4762		Elevation 3793 KB		Farm or Lease Name Killgore Et. Al.	
Csg. Size 4 1/2	Wt. 10.5	d	Set At 4808	Perforations: From 4350 To 4694		Well No. 1			
Tq. Size 2 3/8	Wt. 4.7	d	Set At 4322	Perforations: From Openned To Ended		Unit M	Sec. 21	Twp. 8S	Range 26E
Type Well - Single - Rodenthead - G.G. or G.O. Multiple Single						Factor Set At None		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 98 @ 4500		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L	H	Gg .651	% CO ₂	% N ₂	% H ₂ S	Prover 2"	Meter Run	Taps	

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	
SI							910		910		
1.	2	X	1/4	195		55	865		865		1 hr
2.	2	X	1/4	280		56	820		820		1h
3.	2	X	1/4	405		55	720		720		1h
4.	2	X	1/4	520		58	540		540		1h
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, Mgd
1	1.087		209.2	1.005	1.239	1.021	288
2	1.087		293.2	1.004	1.239	1.030	408
3	1.087		418.2	1.005	1.239	1.044	591
4	1.087		533.2	1.002	1.239	1.056	760
5							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mol/Std.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _i ²	P _w ²	P _w ²	P _i ² - P _w ²	(1) $\frac{P_i^2}{P_i^2 - P_w^2} =$	(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n =$
1	950	902	53		3.003	1.710
2	892	795	158			
3	798	637	318			
4	593	352	602			
5						

Absolute Open Flow _____ 1010 _____ Mgd @ 15.025		Angle of Slope @ _____ 64	Slope, n _____ .4877
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Remarks: _____ Bottom hole pressures recorded with Amerada type gauge

Approved By Commission:	Conducted By: KELTIC SERVICES	Calculated By: Kelly	Checked By:
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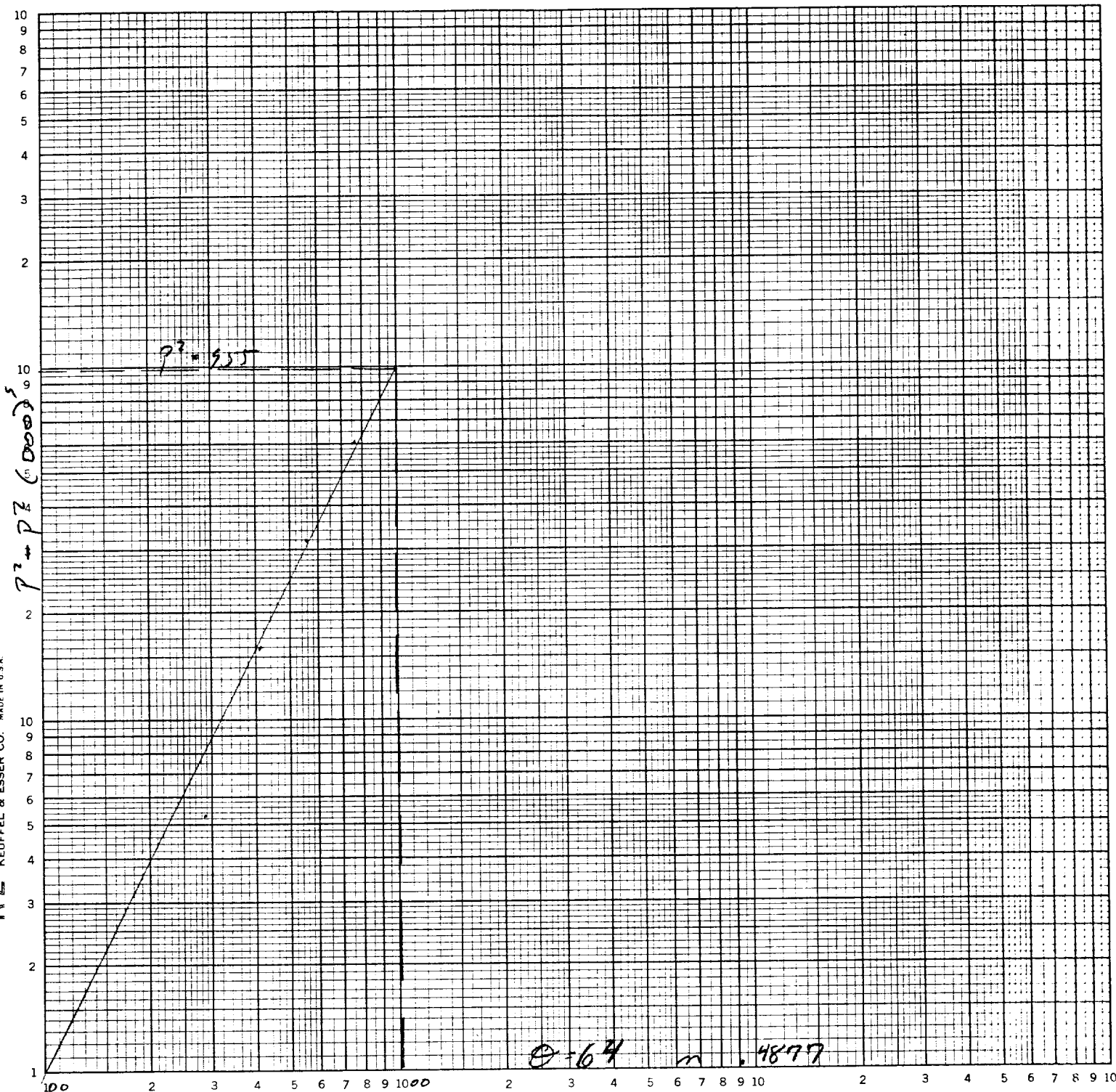
2151
FilePost F.D. 2
3-11-83
Comp. & RM

SAUNDERS OIL & GAS

Killgore #1

46 7400

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



Q
MISCFPD



PRECISION SERVICE INC.

Flow Measurement Engineers

Analysis Results Summary

Casper, WY 82601

Run No. 221-3
Date Run 02/21/83
Date Sampled 02/21/83

Analysis For: KELTIC SERVICES INC.

Lease: Kittgore ETAL. #1

Location Pecos Slope

Purpose Well Test

Sampling Temp. °F

Volume/day 670

Pressure on Bomb 670

Producer Sanders Oil & Gas

County CHAVES State NEW MEXICO

Sampled By Keltic

Atmos Temp. 54 °F

Formation ABO

PSIG; Line Pressure PSIG

Gas Component

Analysis

Press. Base: 14.73

	Mol. %	Liq. %	GPM Per MCF
Carbon Dioxide CO ₂	<u>.042</u>		
Oxygen O ₂			
Nitrogen N ₂	<u>7.673</u>		
Hydrogen Sulfide H ₂ S			
Methane C ₁	<u>84.731</u>		<u>14.361</u>
Ethane C ₂	<u>4.327</u>		<u>1.154</u>
Propane C ₃	<u>1.742</u>		<u>.478</u>
Iso-Butane IC ₄	<u>.296</u>		<u>.097</u>
Nor-Butane NC ₄	<u>.599</u>		<u>.188</u>
Iso-Pentane IC ₅	<u>.179</u>		<u>.065</u>
Nor-Pentane NC ₅	<u>.197</u>		<u>.071</u>
Hexanes C ₆			
Heptanes Plus C ₇ +	<u>.213</u>		<u>.087</u>
Total	<u>100.000</u>		<u>16.502</u>
Pentane + G.P.M.			<u>.224</u>
ROPANE + G.P.M.			<u>.987</u>

BTU Dry 1035
BTU Wet 1017
Calc. Specific Gravity .651

@ Std. Press. 14.696

BTU Dry 1033
BTU Wet 1015

Calc. Vap. Press. #/Sq.In.

Reid Vap. Press. #/Sq.In.

Z Factor .9977
N Value 1.3037
Ave Mol Wt 18.8062

Run by JAP

Calculated By JAP

Remarks:

Distribution: