

RAILWESTERN PIPELINE COMPANY

MULTIPOINT BACK-PRESSURE TEST REPORT

Type Test: ☐ Initial ☐ Annual ☒ Special	Lease No. or Serial No.
Company: R.L. Force	Connection: None
Field: Sans Ranch	Reservoir: Premier Sand
Completion Date: 11-10-73	Plug Back To: 1873
Completion Depth: 1873	Elevation: 3005
Csg. Size: 4.5	Perforations: From 1848 to 1873
Thg. Size: 2 3/8	Perforations: From 1840 to 1873
Type Completion (Describe): Single	Pressure Set At: None
Producing Thru: Tubing	Reservoir Temp. F: 83
Mean Annual Temp. F: 60	Bottom Press. - P: 13.2
1861	1861
G _g : .744	% CO ₂ : .10
% H ₂ : 24.7	% H ₂ S: 1.5
Prognosis: 2	Water Run: Tops

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow, Hr.	
NO.	Prover Line X Size	Choke Orifice Size	Press. psig	Diff. h _w	Temp. F	Press. psig	Temp. F	Press. psig		Temp. F
1.	2 X 3/16		873		74	1280	67			72+
2.	2 X 1/4		601		73	873	74			6 Hrs.
3.						601	73			5 1/2 Hrs.
4.										
5.										

NO.	Coefficient (24-Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor, F ₁	Gravity Factor, F _g	Super Compress. Factor F _{sc}	Rate of Flow Q, Mcfd
1.	0.6237		886	0.9868	1.159	1.064	672
2.	1.115		614	0.9877	1.159	1.045	819
3.							
4.							
5.							

NO.	P ₁	Temp. R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1.	1.41	534	1.56	.883	API Gravity of Liquid Hydrocarbons	deg.
2.	.98	533	1.56	.916	Specific Gravity Separator Gas	.744
3.					Specific Gravity Flowing Fluid	626
4.					Critical Pressure	626 psia
5.					Critical Temperature	341 R

NO.	P ₁	P ₁ ²	P ₁ ² - P _w ²	P _w	P _w ²	P ₁ ² - P _w ²	P ₁	P ₁ ²	P ₁ ² - P _w ²
1.	886	785					938	880	997
2.	614	377					652	425	1452
3.									
4.									
5.									

ADP 940 MCF Bottom Hole Pressures Calc By UCS Time Sharing System.
n .532

Company G. Varney
Others Herman Wallis

RECEIVED

JAN 11 1978

D. C. C.
ARRESTA OFFICE