

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

RRC Field Wildcat Reservoir Penn Paradox County San Juan
Well Owner- Southern Union GasLease Texas Navajo Well No. 1-A
Field Office Address _____ Location (Nearest town) 10 miles N. Shiprock
Date of Test 7/1/53 acres 320 Pipe Line Conn None Survey 36, T-32N, R-18W
Gravity (Raw Gas) .712 Avg. Shut-In Temp 116 Bottom Hole Temp 110 @ 7116
Size CSG 7 Wt./Ft. 23 Lbs. I.D. CSG 6.366 Set at _____
Size TBG 2 1/2 Wt./Ft. 6.5 Lbs. I.D. TBG 2.441 Set at 7632
Prod. Section From 7604-7628 Avg. Prod. Length 7616
Elevation 5375 Date of Completion 2-25-53 Producing through Tubing X

FIELD DATA

Run No.	Time of Run Min.	Choke Size	Coefficient	Choke Press PSIA Tubing	Choke Temp. °F Tubing	Wellhead Press PSIA (Casing)	Wellhead Flow temp. °F
Shut-In						2949	93
1	330	5/16	2.282	1933	85	2004	100
2	255	3/8	3.315	1619	86	1715	90
3	180	2/16	4.612	1340	86	1474	83
4	135	1/2	6.104	1097	86	1277	76
5							

VOLUME CALCULATIONS

Run No.	Static Pm	Flow Temp. F.	Temp. Factor Ft.	Gravity Factor Fg	Compress Factor Fpv	Volume MCF/day
1		85	.9759	.9180	1348	5327
2		86	.9768	.9180	1290	6208
3	6	86	—	.9180	1248	6916
4		86	—	.9180	1199	7199
5						

PRESSURE CALCULATIONS

Run No.	K	$S = \frac{1}{Z}$	$\frac{k}{E}$	$\frac{P_f}{P_s} \frac{q}{g}$	$\frac{P_f^2}{P_s^2} \frac{q}{g}$	$P_f^2 - P_s^2$
Shut-In	.1765	1.239	1.244	3669	13462	
1.	.1753	1.272	1.250	2505	6275	7187
2	.1768	1.279	1.254	2151	4627	8835
3	.1777	1.286	1.257	1853	3434	10028
4	.1790	1.306	1.262	1612	2529	10863
5						

Absolute Open Flow 8280 Mcf/Day

(Test run by Al Wiedkerkehr)

