

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-4-66	
Company H. L. Brown, Jr.		Connection Capitan	
Pool Bluitt (San Andres)		Formation San Andres	
Completion Date 12-14-65		Total Depth 4547	Plug Back TD 4546
		Elevation 4090 K. B.	Farm or Lease Name Saunders "A"
Csg. Size 4 1/2	Wt. 9.5	d 4.090	Set At 4547
Perforations: From 4405 To 4531		Well No. 1	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 4346
Perforations: From O. E. To		Unit Sec. Twp. Rge. P 5 T8 S R37E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 4311	County Roosevelt
Producing Thru Tubing	Reservoir Temp. °F 90 @ 4400	Mean Annual Temp. °F 76	Baro. Press. - P _a 13.2
State New Mexico			
L	H	Gg	% CO ₂ % N ₂ % H ₂ S Prover
		Meter Run 3"	Taps Flange

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							1074	80	Pkr.		2064 Hrs.
1.	3.068		1.000	115	90	60	210	80	Pkr.		4 Hrs.
2.	3.068		1.000	115	49	60	260	80	Pkr.		4 Hrs.
3.	3.068		1.000	110	25	60	380	80	Pkr.		4 Hrs.
4.	3.068		1.000	110	9	60	660	80	Pkr.		4 Hrs.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	6.182	107.4	128.2	1.000	.8771	1.000	582
2	6.182	79.3	128.2	1.000	.8771	1.000	430
3	6.182	55.5	123.2	1.000	.8771	1.000	301
4	6.182	33.3	123.2	1.000	.8771	1.000	181
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					Dry gas	
2.					Water	
3.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
4.					Specific Gravity Separator Gas	.780
5.					Specific Gravity Flowing Fluid	X X X X X X X X
					Critical Pressure	666 P.S.I.A.
					Critical Temperature	418 °R

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1	Shut in	1297.2	1683	
2		759.2	576	1107
3		953.2	909	774
4		1043.2	1173	510
5		1150.2	1323	340

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

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

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

Absolute Open Flow	820 Mcfd @ 15.025	Angle of Slope	30° 21' 25"	Slope, n	0.827000
--------------------	--------------------------	----------------	--------------------	----------	-----------------

Remarks: **Bottom Hole Pressures recorded with Amerada RPO-3 Pressure Gauge**

Approved By Commission:	Conducted By: Tom Hansen Co., Inc.	Calculated By: Tom Hansen Co., Inc.	Checked By: <i>[Signature]</i>
-------------------------	--	---	-----------------------------------

