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MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-6-80	
Company Consolidated Oil & Gas Co.		Connection Gas Co. of New Mexico	
Pool Basin		Formation Dakota	
Completion Date 10-30-80		Total Depth 6945'	
Plug back TD 6860'		Elevation 5790 GL	
Farm or Lease Name Jacques		Well No. 2	
Csq. Size 5.500	Wt. 15.5	d 4.950	Set At 6944'
Perforations: From 6650 To 6864		Well No. 2	
Tng. Size 1.900	Wt. 2.75	d 1.610	Set At 6688
Perforations: From To		Unit Sec. Twp. Rge. K 2 31N 13W	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple G. G. Dual		Packer Set At 4842'	
Producing Thru Tubing		Reservoir Temp. °F A	
Mean Annual Temp. °F		Baro. Press. - P _a 12	
County San Juan		State New Mexico	
L	H	Cg 0.670	% CO ₂ % N ₂ % H ₂ S
Prover		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
1.	Choke	0.750	90			44	1425				7 Days
2.											5 Hrs.
3.											
4.											
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.	12.365		102	1.0158	0.9463	1.011	1226
2.							
3.							
4.							
5.							

NO.	P _r	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 _____ 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

P _c 1437 P _c ² 2064969			
NO.	P _c ²	P _w	P _w ²
1.	10404	352	123904
2.			
3.			
4.			
5.			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0638$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1284$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0475$$

Absolute Open Flow	1284	Field # 15.025	Angle of Slope θ	Slope, n 0.75
Remarks:				

Approved By Division	Conducted By: <i>James Wilson</i> Wilson Service Co.	Calculated By: <i>James Wilson</i> Wilson Service Co.	Checked By: <i>James Wilson</i>
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11-6-80
OIL & GAS DIVISION
SANTA FE

TEMPERATURE ☆

Wilson Service Co.

☆ SURVEYS ☆ ☆

P. O. BOX 1619 • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 327-2573

Pressure Survey

OWNER... Consolidated Oil & Gas	LEASE... Jaccuz	WELL... 2
CO... Basin Dakota	LOCATION... Sec 2 Twp 31 Rge 13	
CITY... San Juan	STATE... New Mexico	DATE... 11-6-80
UT-IT... 10-31-80	ELEVATION... 5790'	DATUM...
NO POINT... KB	TBG. PRESSURE... 1425#	CASING PRESSURE... 1475#
G. DEPTH... 6688'	CASING SET... 6944'	P.B.T.D. ... 6860'
WELL SET... 4842'	CASING PERF. ... 6650'-6864'	MAX. TEMP. ... 140
WID LEVEL... 6350'		

DEPTH	PRESSURE	GRADIENT
Tube	1425	.000
000	1474	.04
000	1564	.04
000	1655	.04
000	1690	.04
250	1712	.08
500	1793	.32
600	1848	.55
707	1907	.55