

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL *Pt. Lookout*

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-13-80							
Company Consolidated Oil & Gas Co.				Connection Gas Co. Of N. M.							
Pool Blanco				Formation Mesa Verde							
Completion Date 10-30-80		Total Depth 6945'		Plug Back TD 6860'							
Csg. Size 5.500		Wt. 15.50		Elevation 5790' GL							
Perforations From 4471' To 4756'		Well No. 2		Farm or Lease Name Jacquez							
Perforations From To		Unit K 2 31 13		Sec. Twp. Rge.							
Type Well - Single - Bradenhead - G.G. or G.C. Multiple G G Dual				Packer Set At 4842'							
Producing Thru L H				County San Juan							
Reservoir Temp. *F 0.670				State New Mexico							
Mean Annual Temp. *F 12				Prover Meter Run Taps							
FLOW DATA											
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	Duration of Flow
1.	Choke 0.750						485				14 Days
2.							80	35			
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		92	1.0249	0.9463	1.010	1114				
2.											
3.											
4.											
5.											
NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ X X X X X X X X X Specific Gravity Flowing Fluid _____ X X X X X Critical Pressure _____ P.S.I.A. _____ P.S.I.A. Critical Temperature _____ R _____ R						
1.											
2.											
3.											
4.											
5.											
P _c 497 P _c ² 247009					(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.4231$ (2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.3030$						
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²							
1.	8464	271	73441	173568							
2.											
3.											
4.											
5.											
Absolute Open Flow 1452 Mcfd @ 15,025					Angle of Slope 0.75						
Remarks: Two Packers in well No Csg. Pressure											
Approved by Division _____ Conducted By: <i>James Wilson</i> Calculated By: <i>James Wilson</i> Checked By: _____ Wilson Service Co. Wilson Service Co.											

TEMPERATURE *

Wilson Service Co.

* SURVEYS * *

P. O. BOX 1819 • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 327-2575

Pressure Survey

Company. Consolidated Oil & Gas.	LEASE.... Jacques.....	WELL..... 2.....
TRID. Mesa Verde.....	LOCATION..... Sec. 2... Twp. 31... Rge. 13.....	
County. San Juan.....	STATE.... New Mexico.....	DATE... 11-13-80.....
SHUT-IN... 10-31-80.....	ELEVATION. 5790'.....	DATUM.....
ZERO POINT..... KB.....	TBG. PRESSURE... 468#.....	CASING PRESSURE.... 1480.....
TBG. DEPTH..... 4412'.....	CASING SET..... 6964'.....	P.B.T.D. 6860'.....
PACER SET... 4342'.....	CASING PERF. 4471' To 4756.....	MAX. TEMP. 128.....
FLUID LEVEL..... None.....		

DEPTH

PRESSURE

GRADIENT

Lube	468	.000
1000	478	.001
2000	491	.001
3000	503	.001
4000	517	.001
4200	521	.002
4350	524	.002
4420	527	.002