

OIL CONSERVATION DIVISION

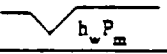
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator BURLINGTON RESOURCES OIL & GAS COMPANY					Lease or Unit Name JUSTIS "25" FEDERAL					
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-2-97		Well No. 1			
Completion Date 9-8-97		Total Depth 6813' MD		Plug Back TD 6750' MD		Elevation 3059' GR		Unit Ltr. - Sec. - TWP - Rge. G 25-25		
Csg. Size 4 1/2	WL 11.6	d 	Set At 6813	Perforations: From: 6263 To: 6720			Country LEA			
Tbg. Size 2-3/8	WL 4.7	d 1.995	Set At 6720	Perforations: From: To: 			Pool JUSTIS ABO OIL			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At NONE			Formation ABO		
Producing Thru TBG		Reservoir Temp. °F 60°		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		Connection SID RICHARDSON		
L 6720	H 6720	Gg .670	% CO ₂ 1.16	% N ₂ 1.94	% H ₂ S N/A	Prover N/A	Meter Run 4	Taps FLG		

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							1280	1280			7 days
1.	4	x	1.750				1270	1270			1 hr.
2.	4	x	1.750				1215	1220			1 hr.
3.	4	x	1.750				1124	1142			1 hr.
4.	4	x	1.750				1017	1032			1 hr.
5.											

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							290
2.							592
3.							935
4.							1298
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRV GAS	Mcf/bbl
1.					A.P. I Gravity of Liquid Hydrocarbons	DRV	Deg.
2.					Specific Gravity Separator Gas	.670	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	672	P.S.I.A.
5.					Critical Temperature	378	R

P_c 1293.2 P_w 1672.4

NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 64.82$	2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8.018$
1.		1283.2	1646.6	25.8		
2.		1233.2	1520.8	151.6		
3.		1155.2	1334.5	337.9		
4.		1045.2	1092.4	580.0		
5.						

AOF = Q

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,325$$

Absolute Open Flow **2,325** Mcfd @ 15.025 Angle of Slope Θ **63.5** Slope, n **.499**

Remarks: **NO FLUID**

Approved By Division	Conducted By: PRO WELL TESTING	Calculated By: BM	Checked By: BM
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