

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

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 9-18-97		Well No. 2			
Completion Date 8-25-97		Total Depth 6860' MD, 6784' TVD		Plug Back TD 6813' MD		Elevation 3056' GR		Unit Ltr. - Sec. - TWP - Rge. 25, 25S, 37E			
Csg. Size 4 1/2	WL 11.6	d 	Set At 6813	Perforations: From: 6176 To: 6773				County LEA			
Tbg. Size 2-3/8	WL 4.7	d 1.995	Set At 6689'	Perforations: From: To: 				Pool JUSTIS ABO			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At NONE		Formation ABO			
Producing Thru TBG		Reservoir Temp. °F 114 @ 6700		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection SID RICHARDSON			
L 6673	H 6673	Gg .668	% CO ₂ 	% N ₂ 	% H ₂ S 	Prover		Meter Run		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	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						1030		1300		48 hr
1.	4 X 1.375		15.7			870		1280		1 hr.
2.	4 X 1.375		17.0			1020		1240		"
3.	4 X 1.375		18.7			1030		1190		"
4.	4 X 1.375		22.4			980		1100		"
5.			34.7			799		880		"

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, F _{pv}	Rate of Flow Q, Mcfd
1.							88
2.							231
3.							354
4.							546
5.							944

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1.					N/A	
2.					N/A	
3.					.693	XXXXXXXXXX
4.					XXXXXX	
5.					699	P.S.I.A. P.S.I.A.
					388	R R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	1293.2	1672.4	52.1	
2.	1253.2	1570.5	154.0	
3.	1203.2	1447.7	275.8	
4.	1113.2	1239.2	485.3	
5.	893.2	797.8	926.7	

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.861$

2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.661$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,567$

$P_c = 1313.2$ $P_c^2 = 1724.5$

Absolute Open Flow	1,567	Mcf @ 15.025	Angle of Slope θ	50.7	Slope, n	.8165
--------------------	--------------	--------------	-------------------------	-------------	----------	--------------

Remarks: **WELL PRODUCED 22.0 BBLS H²O**

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

BURLINGTON RES. INC.

JUSTIS 25 #2

