

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 9-11-69	
Company CONZOL UNITED, INC.				Connection NONE	
Pool SOUTH CORBIN				Formation MORROW GAS	
Completion Date 9-11-69		Total Depth 13663'		Elevation 3758' GL	
Farm or Lease Name HUDSON FED. 29		Well No. No. 3			
Coq. Size 1 1/2"	Wt. 13.5	d 4.000	Set At 13663'	Perforations: From 13101 To 13287	
Tbg. Size 2 3/8"	Wt. 4.70	d 1.995	Set At 13025	Perforations: From OPEN To ENDED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 13025'	
Producing Thru TUBING		Reservoir Temp. °F 184 @ 13000'		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State NEW MEXICO			
L 13194	H -	G _g 0.640	% CO ₂ 0.62	% N ₂ 0.37	% H ₂ S 0.00
Prover X		Meter Run F		Taps F	

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. DWT	Temp. °F	Press. p.s.i.g.	
SI							4333		PACKER	
1.	1 1/4	1 1/4	760	88	60	3313	80	-	-	3.0
2.	1 1/4	1 1/4	765	45	75	3718	82	-	-	1.0
3.	1 1/4	1 1/4	750	10	82	3930	85	-	-	1.0
4.	1 1/4	1 1/4	750	5	89	4190	86	-	-	1.0
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	7.169	264.21	793.2	1.000	1.250	1.081	2666.7
2	7.169	187.13	778.2	0.9859	1.250	1.070	1843.1
3	7.169	120.42	763.2	0.9795	1.250	1.065	1132.9
4	7.169	61.77	763.2	0.9732	1.250	1.061	595.5
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	1.10	520	1.41	.856	43311	
2	1.13	535	1.45	.873	51.2	
3	1.17	549	1.47	.882		
4	1.13	549	1.49	.885		
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A.P.I. Gravity of Liquid Hydrocarbons 51.2 Deg. Specific Gravity Separator Gas 0.640 Specific Gravity Flowing Fluid XXXXX Critical Pressure 672 P.S.I.A. Critical Temperature 320 °F			
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NO.	P _r ²	P _w ²	R _w ²	P _r ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.73}{2.73 - 1.0} = 2.58$ $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.58}{1.0} = 2.58$
1	1.21	0.00	0.00	1.21	
2	1.27	0.00	0.00	1.27	
3	1.37	0.00	0.00	1.37	
4	1.27	0.00	0.00	1.27	

App. rate per flow	1900 Mcfd @ 15.025	Angle of Slope	3.0	Slope, n	0.95
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Remarks: * P_r = 13194' (-9430') 13194' USED FOR PRESSURE CALC. AT G.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	CONZOL UNIT, INC.	JOE A. COLEMAN	JOE A. COLEMAN