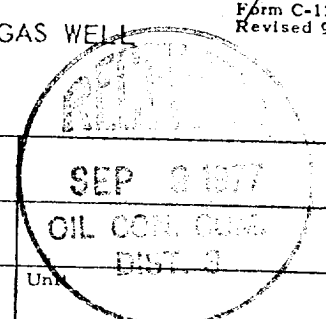


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65



Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 7-19-77	
Company Dugan Production		Connection New Completion	
Pool		Formation Pictured Cliffs	
Completion Date		Total Depth 2130	Plug Back TD 2039
		Elevation 6901	
Csq. Size 2.875	Wt. 6.5	d 2.441	Set At 2112
Perforations: From 2013 To 2023		Well No. Mesa #2	
Tbg. Size 1.660	Wt. 2.3	d 1.380	Set At 2023
Perforations: From To		Unit NW 16 24 8	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Packer Set At None	
Gas - single		County San Juan	
Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P _a
Tubing	Ø		12.0
L	H	G _g	% CO ₂ % N ₂ % H ₂ S
		.67	Prover 2"
Meter Run		Taps	
New Mexico			

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.	2	x	1/8	417		66°	556		556		
2.	2	x	3/16	302		73°	417		518		2 hrs.
3.	2	x	7/32	222		77°	302		465		2 hrs.
4.	2	x	1/4	144		75°	222		398		2 hrs.
5.	2	x	1/4	86		68°	144		312		2 hrs.
							86		266		12 hrs.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	0.264		429	.993	1.222	1.047	143
2.	0.608		314	.988	1.222	1.033	238
3.	1.087		234	.984	1.222	1.022	313
4.	1.672		156	.986	1.222	1.013	318
5.	1.672		98	.992	1.222	1.008	200

NO.	P _t	Temp. °R	T _t	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 568	P _c ² 322624			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		530	280900	41724
2		477	227529	95095
3		410	168100	154524
4		324	104976	217648
5		278	77284	245340

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

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

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

Absolute Open Flow 232	Mcf/d @ 15.025	Angle of Slope 31.50°	Slope, n 62
Remarks:			

Approved By Commission:	Conducted By: Fred Hamrick	Calculated By: Fred Hamrick	Checked By: B.J. Broughton
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